Self Diagnosis Supported model

SERVICE MANUAL

AE-5 CHASSIS

MODEL	COMMANDER	DEST	CHASSIS NO.	MODEL	COMMANDER	DEST	CHASSIS NO.
KV-28FC60	RM-892	Europe	SCC-Q11K-A	KV-32FC60	RM-892	Europe	SCC-Q11G-A
KV-28FC60/Z	RM-892	Europe	SCC-Q11J-A	KV-32FC60/Z	RM-892	Europe	SCC-Q11H-A

FD Trinitron

TRINITRON ® COLOR TV

SONY ®

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ITEM MODEL	Television System	Stereo System	Channel Coverage	Color System
AEP	B/G/H, D/K, L, I	GERMAN /NICAM Stereo	L VHF : F02-F10 UHF : F21-F60 CABLE : B-Q B/G/H VHF : E2-E12 UHF : E21-E69 CABLE TV (1) : S1-S41 CABLE TV (2) : S01-S05, M1-M10, U1-U10 ITALIA VHF : A-H2 (C) UHF : 21-69 I UHF : B21-B69	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)

Model	28FC60	28FC60/Z	32FC60	32FC60/Z
Power Consumption	132W	132W	130W	130W

Picture Tube	FD Trinitron Approx 71cm (28 inches) (Approx 66cm picture measured diagonally) Approx 82cm (32 inches) (Approx 76cm picture measured diagonally) 110 degree deflection	Sound output Subwoofer	Right and Left speaker 2 x 25W (Music Power) 2 x 15W (RMS)
Input/Output Terminals [REAR]		Power Requirements	220 - 240V
1:21-pin Euro connector (CENELEC standard)	Inputs for Audio and Video signals. Inputs for RGB. Outputs of TV Video and Audio signals.	Dimensions	28" 772(w)x497(h)x533(d)mm 32" 867(w)x564(h)x558(d)mm
2:21-pin Euro connector	Inputs for Audio and Video signals. Inputs for S Video. Outputs of TV Video and Audio signals. (selectable)	Weight	28" Approx 42.5kg 32" Approx 65kg
3:21-pin Euro connector	Inputs for Audio and Video signals. Inputs for S Video. Outputs of Audio/Video signals (monitor out)	Supplied Accessories	RM-892 Remote Commander (1) IEC designated R6 battery (2)
RCA Jacks	Output for Audio Signals	Other Features	NICAM stereo, NexTView, Digital Comb Filter 100Hz Picture Graphic Equaliser
External speaker terminals	2 pin DIN		
S Video input	4 pin DIN	**RM-892**	
Input/Output Terminals [FRONT]		Remote control system	Infrared control
Headphone jack	stereo minijack	Power requirements	3V dc 2 batteries IEC designation R6 (size AA)
		Dimensions	Approx 210x55x23mm (w/h/d)
		Weight	Approx 110g (not including battery)
Design and specifications are subject to change without notice.			

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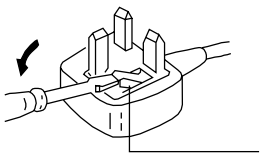
Model Name / Item	KV-28FC60	KV-28FC60/Z	KV-32FC60	KV-32FC60Z
Pal Comb	ON	ON	ON	ON
PIP	OFF	OFF	OFF	OFF
RGB Priority	ON	ON	ON	ON
Woofer Box	ON	ON	ON	ON
Scart 1	ON	ON	ON	ON
Scart 2	ON	ON	ON	ON
Top Rear in (3)	ON	ON	ON	ON
Scart 4	ON	ON	ON	ON
Projector	OFF	OFF	OFF	OFF
AKB in 16:9 mode	ON	ON	ON	ON
Norm B/G	ON	ON	ON	ON
Norm I	ON	ON	ON	ON
Norm D/K	ON	ON	ON	ON
Norm AUS	OFF	OFF	OFF	OFF
Norm L	ON	ON	ON	ON
Norm SAT	OFF	OFF	OFF	OFF
Norm M	OFF	OFF	OFF	OFF
Teletext	ON	ON	ON	ON
Nicam Stereo	ON	ON	ON	ON

WARNING (UK Models only)

The flexible mains lead is supplied connected to a **B.S. 1363** fused plug having a fuse of **5 AMP** rating. Should the fuse need to be replaced, use a **5 AMP FUSE** approved by ASTA to **BS 1362**, ie one that carries the ASTA mark.

IF THE PLUG SUPPLIED WITH THIS APPLIANCE IS NOT SUITABLE FOR THE OUTLET SOCKETS IN YOUR HOME, IT SHOULD BE CUT OFF AND AN APPROPRIATE PLUG FITTED. THE PLUG SEVERED FROM THE MAINS LEAD MUST BE DESTROYED AS A PLUG WITH BARED WIRES IS DANGEROUS IF ENGAGED IN A LIVE SOCKET.

When an alternative type of plug is used, it should be fitted with a **5 AMP FUSE**, otherwise the circuit should be protected by a **5 AMP FUSE** at the distribution board.



How to replace the fuse.
Open the fuse compartment with a screwdriver blade and replace the fuse.

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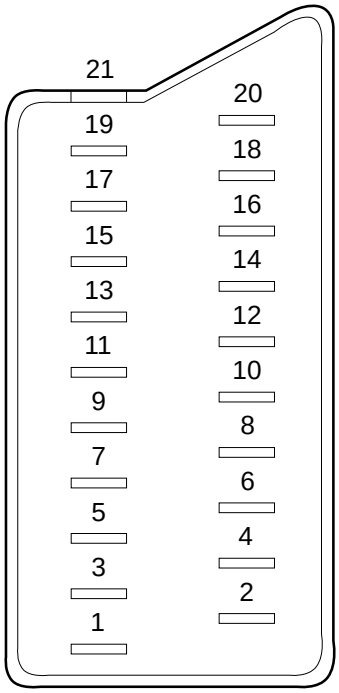
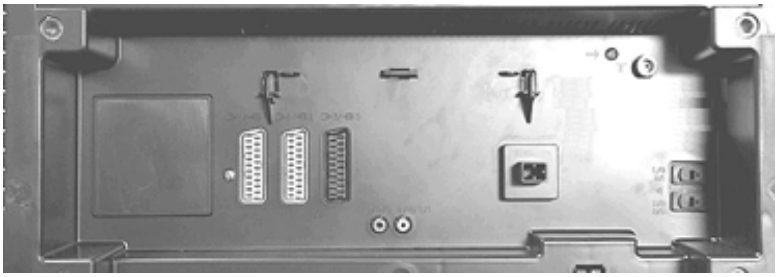
21 pin connector



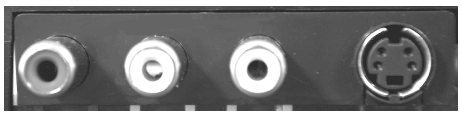
Pin No	1	2	4	Signal	Signal level
1	○	○	○	Audio output B (right)	Standard level : 0.5V rms Output impedence : Less than 1kohm*
2	○	○	○	Audio output B (right)	Standard level : 0.5V rms Output impedence : More than 10kohm*
3	○	○	○	Audio output A (left)	Standard level : 0.5V rms Output impedence : Less than 1kohm*
4	○	○	○	Ground (audio)	
5	○	○	○	Ground (blue)	
6	○	○	○	Audio input A (left)	Standard level : 0.5V rms Output impedence : More than 10kohm*
7	○	●	●	Blue input	0.7 +/- 3dB, 75 ohms positive
8	○	○	○	Function select (AV control)	High state (9.5-12V) : Part mode Low state (0-2V) : TV mode Input impedence : More than 10K ohms Input capacitance : Less than 2nF
9	○	○	○	Ground (green)	
10	○	○	○	Open	
11	○	●	●	Green	Green signal : 0.7 +/- 3dB, 75 ohms, positive
12	○	○	○	Open	
13	○	○	○	Ground (red)	
14	○	○	○	Ground (blanking)	
15	○	–	–	Red input	0.7 +/- 3dB, 75 ohms, positive
	–	○	○	(S signal Chroma input)	0.3 +/- 3dB, 75 ohms, positive
16	○	●	●	Blanking input (Ys signal)	High state (1-3V) Low state (0-0.4V) Input impedence : 75 ohms
17	○	○	○	Ground (video output)	
18	○	○	○	Ground (video input)	
19	○	○	○	Video output	1V +/- 3dB, 75ohms, positive sync 0.3V (-3+10dB)
20	○	–	–	Video input	1V +/- 3dB, 75ohms, positive sync 0.3V (-3+10dB)
	–	○	○	Video input Y (S signal)	1V +/- 3dB, 75ohms, positive sync 0.3V (-3+10dB)
21	○	○	○	Common ground (plug, shield)	

○ Connected ● Not Connected (open) * at 20Hz - 20kHz

Rear Connection Panel



S Video socket pin configuration		
Pin No	**Signal**	**Signal Level**
1	Ground	-
2	Ground	-
3	Y (S signal) input	1V +/- 3dB 75ohm, positive Sync. 0.3V -3 +10dB
4	C (S signal) input	0.3V +/- 3dB 75ohm, positive Sync.



S-Video socket

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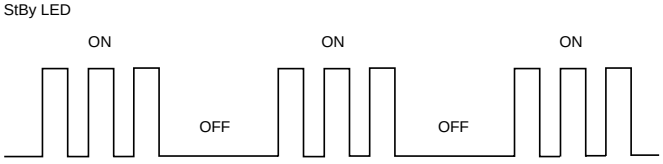
AE-5 SELF DIAGNOSTIC SOFTWARE

The identification of errors within the AE-5 chassis is triggered in one of two ways :- 1: Busy or 2: Device failure to respond to IIC. In the event of one of these situations arising the software will first try to release the bus if busy (Failure to do so will report with a continuous flashing LED) and then communicate with each device in turn to establish if a device is faulty. If a device is found to be faulty the relevant device number will be displayed through the LED (Series of flashes which must be counted) See table 1., non fatal errors are reported using this method.

Diagnostic Item Description	No of times Standby LED Flashes	Probable cause Location	Detected Symptoms
Power does not turn on	Does not light	Power cord is not plugged in. Fuse is open circuit.	Power does not come on No power is supplied to the TV AC power supply is faulty
+B Overcurrent (OCP)	2 times	H.OUT (Q6803/6804) is shorted. (D Board) Linearity FET (Q6806) is shorted. (D Board) IC6604 Power IC is shorted. (D Board)	Power does not come on Load on power line has shorted
Vertical Deflection stopped	4 times	+15V is not supplied R6835 open (D Board) -15V is not supplied R6834 open (D Board) IC6700 is shorted (D Board)	Vertical deflection pulse has stopped Power line has shorted

Error Message	**LED Code**
No error	00
I2C bus error	01
OCP (Over Current Protection)	02
OVP (Over Voltage Protection)	03
Vertical Protection	04
Reserved	05
Horizontal Protection	06
Speaker Protection	07
M-B. Teletext Decoder	08
M-B. ST24C32, NVM	09
J-B, TDA9320, Main Colour Decoder	10
B1/B2-B, Feature Box	11
B1-B, D/A Converter	12
E-B. Backend	13
J-B. MSP3410D, Sound Processor	14
J-B. CXD2057, Auto Wide	15

Flash Timing Example : e.g. error number 3



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Error Detection Monitor

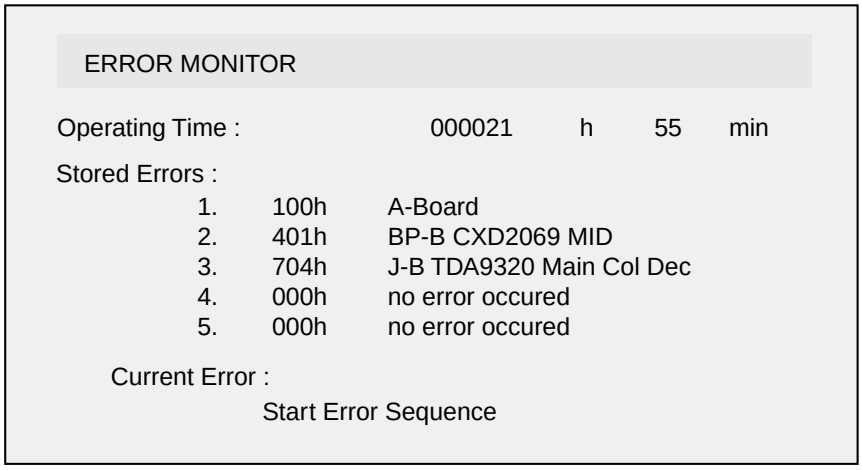
Device acknowledge is used to check IIC errors. Device acknowledge is checked by sending an IIC start sequence during CRT power on. Each device is checked three times, if there is no acknowledge after each attempt, it will be regarded as an error.
There are three steps to check for errors.

1. IIC line 0
   If all devices except the NVM have errors, IIC line 0 error is displayed.
2. Board check
   If all devices mounted on one board have errors, board error is displayed.
3. Each device check
   If IIC line error and board error are not detected then the device with the error is displayed.

The detected errors can be displayed as follows :

1. Error Monitor Menu.
2. Error Reader.

1. Error Monitor Menu


ERROR MONITOR
Operating Time : 000021 h 55 min
Stored Errors :
1. 100h A-Board
2. 401h BP-B CXD2069 MID
3. 704h J-B TDA9320 Main Col Dec
4. 000h no error occured
5. 000h no error occured
Current Error :
Start Error Sequence

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2. Error Reader Display

The error reader display is connected to the service connector to read actual error codes. The part number for the error reader display is S-188-900-10. Once an error has been detected it will then be displayed on the two digit error reader. The errors displayed refer to the following table.

Error Code	Error Message
000h	No error occured
001h	Bus error, IIC0
002h	Bus error, IIC1
100h	**A-Board**
101h	A-B. CXA1875, Port Expander
102h	A-B. TU1326, Main Tuner
103h	A-B. TU1350, Sub Tuner
200h	**B1-Board**
201h	B1-B. P83C654, Feature Box B1-B. SDA9280, D/A Converter
202h	B1-B. P83C654, Feature Box B1-B. SDA9280, D/A Converter
300h	**B2-Board**
301h	B2-B. SAA4977, BESIC
400h	**BP-Board**
401h	BP-B. CXD2069, MID
500h	**D1 Board**
501h	D1-B, CXA8070, Dynamic Converter
502h	D1-B. CXA1875, Port Expander
600h	**E-Board**
601h	E-B. CXD2100, Backend
700h	**J-Board**
701h	J-B. CXD2057, Auto Wide
702h	J-B. SDA9288, PIP
703h	J-B. Sub Colour Decoder TDA9320 or CXA2123
704h	J-B. Main Colour Decoder TDA9320 or CXA2123
705h	J-B. CXA1875, Sub-Sound
706h	J-B. TDA7309, HP-Amplifier
707h	J-B. TEA6422DT, Audio Switch
708h	J-B. MSP3410D, Sound Processor
709h	J-B. TC9337F, Sound DSP
70Ah	J-B. CXA21X9, AV Switch
800h	**M-Board**
801h	M-B. ST24C32, NVM

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CAUTION

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR THE CARBON PAINTED ON THE CRT, AFTER REMOVAL OF THE ANODE CAP.

WARNING !!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE WORK TO AVOID POSSIBLE SHOCK HAZARD DUE TO LIVE CHASSIS, THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE POWER LINE.

SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARKED ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL FOR SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION

APRES AVOIR DECONNECTE LE CAP DE'LANODE, COURT-CIRCUITER L'ANODE DU TUBE CATHODIQUE ET CELUI DE L'ANODE DU CAP AU CHASSIS METALLIQUE DE L'APPAREIL, OU AU COUCHE DE CARBONE PEINTE SUR LE TUBE CATHODIQUE OU AU BLINDAGE DU TUBE CATHODIQUE.

ATTENTION !!

AFIN D'EVITER TOUT RISQUE D'ELECTROCUTION PROVENANT D'UN CHÁSSIS SOUS TENTION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISÈ LORS DE TOUT DÈPANNAGE LE CHÁSSIS DE CE RÈCEPTEUR EST DIRECTMENT RACCORDÈ Á L'ALIMENTATION SECTEUR.

ATTENTION AUX COMPOSANTS RELATIFS Á LA SECURITÈ!!

LES COMPOSANTS IDENTIFIÈS PAR UNE TRAME ET PAR UNE MARQUE ⚠ SUR LES SCHÈMAS DE PRINCIPE, LES VUES EXPLOSÈES ET LES LISTES DE PIECES SONT D'UNE IMPORTANCE CRITIQUE POUR LA SÈCURITÈ DU FONCTIONNEMENT, NE LES REMPLACER QUE PAR DES COMPSANTS SONY DONT LE NUMÈRO DE PIÈCE EST INDIQUÈ DANS LE PRÈSENT MANUEL OU DANS DES SUPPLÈMENTS PUBLIÈS PAR SONY.

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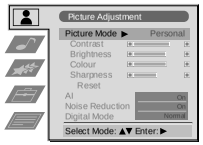
The operating instructions mentioned here are partial abstracts from the 'Operating Instruction Manual'. The page numbers of the 'Operating Instruction Manual' remain as in the manual.

Using the TV menu system

The TV consists of a menu system which is based on a series of user friendly on-screen displays and menus. These displays will help you get the most from your TV, helping you to change picture and sound settings, to alter the size of the TV picture and to rearrange the TV channels etc.

Adjusting the picture and sound



Picture and sound are adjusted at the factory. You can however, adjust them individually.

1 Press MENU.
Select the symbol for Picture or for Sound using ▲ or ▼.
Push to ▶ to enter.
The menu Picture or Sound Control is displayed.

2 Select the desired item using ▲ or ▼. Push to ▶ to enter.

3 Adjust the selected item using ▲, ▼, ▶ and ◀. Press OK to store.

Refer to the tables on this and the following page for more information.

4 Repeat steps 2 and 3 to adjust other items.

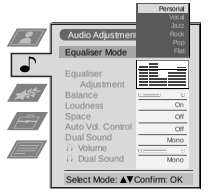
5 Press MENU to return to the normal TV screen.

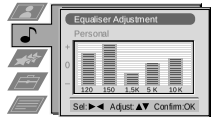
Picture Control

Item	Effect/Operation
Picture Mode	▼ Live (for live broadcasts) Personal (for individual settings) ▲ Movie (for movie broadcasts)
Contrast	Less ◀ ▶ More
Brightness*	Darker ◀ ▶ Brighter
Colour*	Less ◀ ▶ More
Hue**	Reddish ◀ ▶ Greenish
Sharpness*	Softer ◀ ▶ Sharper
Reset	Resets picture to the factory preset levels
AI (Artificial Intelligence)	▲ Off: normal ▼ On: Automatic optimization of contrast level according to the TV signal
Noise Reduction	▲ Off: Normal ▼ On: Reduces picture noise in case of a weak broadcasting signal
Digital Mode	▼ Normal: 100 Hz. Digital+: 100 Hz plus line flicker reduction ▲ Advanced: Digital+ plus smoothing of motions

* Only if Personal is selected in Picture Mode
** Only available for NTSC colour signal (e.g. US video tapes)

Sound Control





Item	Effect/Operation
Equaliser mode	Select between the following sound settings ▼ Personal Vocal Jazz Rock Pop ▲ Flat (fixed setting, cannot be adjusted)
Equaliser adjustment	You can adjust the mode selected in Equaliser mode by cutting and boosting of 5 selected frequency bands. Only the changes made in Personal can be stored, the others return to factory setting. ● Select the desired bar using ▶ or ◀, adjust using ▲ and ▼. Press OK to store.
Balance	▶ More right ◀ More left
Loudness	▼ Off: Normal ▲ On: For music broadcasts
Space	▼ Off: Normal ▲ On: Special accoustic effect
Auto Volume Control	▲ On: volume level of the channels will stay the same independent of the broadcast signal (e.g. in case of advertisements) ▼ Off: volume level changes according to the broadcast signal
Dual Sound	For a bilingual broadcast: ▼ A for channel 1 ▲ B for channel 2 For a stereo broadcast: ▼ Mono ▲ Stereo In case of a NICAM stereo broadcast the indication NICAM appears briefly on the screen.
Headphones Volume Dual Sound	Less ◀ ▶ More For a bilingual broadcast: ▼ A for channel 1 ▲ B for channel 2

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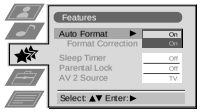
Using the Features menu



1 Press the MENU button on the remote control. Select the symbol using ▼. Push to ► to enter.

2 Select the desired menu item using ▼. Push to ► to enter.

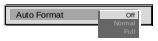
3 Select the desired setting using ▲ or ▼.

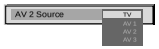
4 Store by pressing OK.

5 Press MENU to return to the normal TV screen.

Features

Item	Effect/Operation
Auto Format* *only for aerial signal	▲ Off: Size of picture does not automatically adjust. Normal: Size of picture automatically adjusts according to information from broadcaster. ▼ Full: The TV can automatically adjust the picture size to eliminate any dark areas on the TV picture (as shown below):
Format Correction* *only if Auto Format is set to 'Normal' or 'Full'	▲ On: Smart mode is selected automatically for 4:3/14:9 broadcasts ▼ Off: 4:3/14:9 is selected
Sleep Timer	You can select a time period after which the TV switches itself into standby mode ▲ Off 10 min. 20 min. ⋮ ▼ 90 min.
Parental Lock	▲ Off: Normal mode ▼ On: TV can only be switched on out of standby-mode using the Remote Commander, the buttons on the TV do not work.
AV2 Source	You can select the source to be output from the Scart connector 2/2. In this way you can record from this socket while watching another source. ▲ TV audio/video signal from the aerial AV1 audio/video signal from Scart 1 AV2 audio/video signal from Scart 2 ▼ AV3 audio/video signal from connectors on top or bottom of rear of TV.





Changing the screen mode

When Auto Format in the Features menu is preset to "Normal" or "Full", the TV set automatically selects the detected screen format. Screen mode, however, lets you select the screen format of your choice.

- Press the button on the remote control repeatedly to get one of the following formats:

  Smart imitation of wide screen effect for 4:3 broadcasts, parts of the top and bottom of the picture are cut off
  4:3 conventional 4:3 aspect ratio, full picture information
  14:9 compromise between 4:3 and 16:9 aspect ratios
  Zoom imitation of wide screen effect for letterboxed movies
  Wide for 16:9 broadcasts

In Zoom, Smart and 14:9 modes parts of the top and the bottom of the screen are cut off. Using ▲ and ▼ you can adjust the position of the image onscreen to e.g. read subtitles. Press OK to confirm.

Smart

Zoom

Wide

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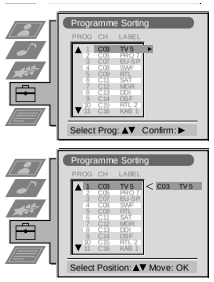
Sorting TV channels



After tuning in TV channels, you may wish to rearrange the order of the channels.

1 Press the MENU button on your remote control. Select the symbol using ▼. Push to ▶ to enter.

2 Select Programme Sorting using ▼. Push to ▶ to enter.

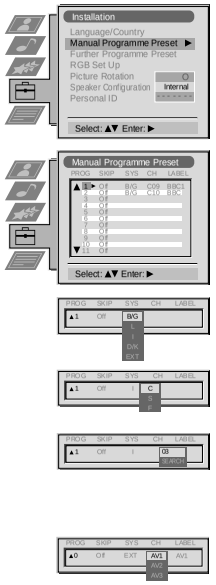
3 Select the programme position of the channel you wish to sort using ▲ or ▼. Push to ▶ to enter.

4 Move the channel to the new programme position using ▲ or ▼. Store by pressing OK.
The channel is now at the new position. The other programme positions move accordingly.

5 To sort other programme positions repeat steps 3 to 4.

6 Press MENU to return to the normal TV screen.

Manually tuning-in channels



Use this function to preset channels or a video input source one by one to programme positions of your choice.

1 Press the MENU button on the remote control. Select the symbol using ▼. Push to ▶ to enter.

2 Select Installation using ▼. Push to ▶ to enter.
Select Manual Programme Preset using ▼. Push to ▶ to enter.

3 Select the programme position by pushing to ▲ or ▼. Push twice to ▶.
The column SYS is highlighted.

4 Select the TV system using ▲ or ▼. Push to ▶ to enter.

Available TV systems are I for Ireland or EXT for a video input source (please go to step 5c after selecting EXT).

5 Select your method for the channel tuning using ▲ or ▼. Push to ▶ to enter.
You have the choice between **C** for a terrestrial channel, **S** for a cable channel or **F** for direct frequency input.

6a Direct Channel Input

For channel numbers input a two digit number, for the channel frequency a three digit number.

- Select the two or three digits by using the number buttons 0 to 9.
- To start the search and to store the channel, press the OK button.
- To preset other channels repeat steps 3 to 6a.

b Channel search (SEARCH)

Use Search if you do not know the channel number or frequency

- Start the search for the next available channel by pushing to ▼.
- Store the channel by pressing OK or continue the search by pushing again to ▼.
- To search for other channels repeat steps 3 to 6b.

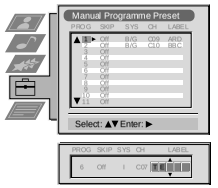
c For video input sources (EXT)

- Select the Video Input source using ▲ or ▼.
- Store your selection by pressing OK.
- To allocate other sources repeat steps 3 to 5c.

6 Press MENU to return to the normal TV screen.

Naming a channel

During tuning the channels are usually labelled automatically.
You can, however, individually name a channel or a video input source.



1 Press the MENU button on the remote control. Select the symbol using ▼. Push to ▶ to enter.

2 Select Installation using ▼. Push to ▶ to enter.
Select Manual Programme Preset using ▼. Push to ▶ to enter.

3 Select the programme position of the channel or the video source you wish to label by pushing to ▼ or ▲. Push repeatedly to ▶ until the first element of the position LABEL is highlighted.

4 Select a number, a letter, + or a blank using ▲ or ▼. Push to ▶ to confirm.
Select the other four characters in the same way.

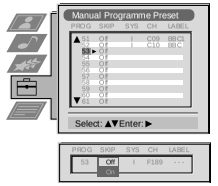
5 Store your selection by pressing OK.

6 To label other channels or video sources repeat steps 3 to 5.

7 Press MENU to return to the normal TV screen.

Skipping programme positions

In case of 100 programme positions there may be unused positions, which you can skip in the menu »Manual Programme Preset«. When changing channels with the PROGR +/– buttons they then do not appear.
You can, however, still select them using the number buttons.



1 Press the MENU button on the remote control. Select the symbol using ▼. Push to ▶ to enter.

2 Select Installation using ▼. Push to ▶ to enter.
Select Manual Programme Preset using ▼. Push to ▶ to enter.

3 Select the programme position you wish to skip by pushing to ▲ or ▼. Push to ▶ to enter.
The column SKIP is highlighted.

4 Select ON using ▼.

5 Store by pressing OK.

6 To skip other programme positions repeat steps 3 to 5.

7 Press MENU to return to the normal TV screen.

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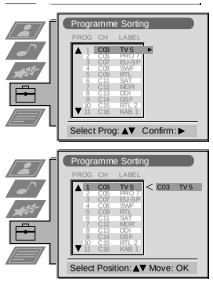
Sorting TV channels



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4 Move the channel to the new programme position using ▲ or ▼. Store by pressing OK.
The channel is now at the new position. The other programme positions move accordingly.

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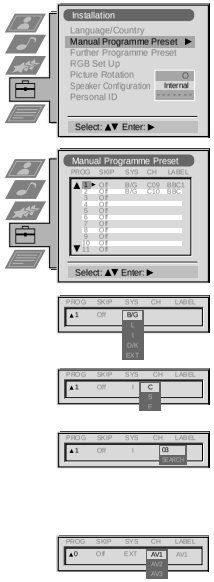
6 Press MENU to return to the normal TV screen.

Manually tuning-in channels



Use this function to preset channels or a video input source one by one to programme positions of your choice.

1 Press the MENU button on the remote control. Select the symbol using ▼. Push to ▶ to enter.

2 Select Installation using ▼. Push to ▶ to enter.
Select Manual Programme Preset using ▼. Push to ▶ to enter.

3 Select the programme position by pushing to ▲ or ▼. Push twice to ▶.
The column SYS is highlighted.

4 Select the TV system using ▲ or ▼. Push to ▶ to enter.

Available TV systems are I for Ireland or EXT for a video input source (please go to step 5c after selecting EXT).

5 Select your method for the channel tuning using ▲ or ▼. Push to ▶ to enter.
You have the choice between **C** for a terrestrial channel, **S** for a cable channel or **F** for direct frequency input.

6a Direct Channel Input

For channel numbers input a two digit number, for the channel frequency a three digit number.

- Select the two or three digits by using the number buttons 0 to 9.
- To start the search and to store the channel, press the OK button.
- To preset other channels repeat steps 3 to 6a.

b Channel search (SEARCH)

Use Search if you do not know the channel number or frequency

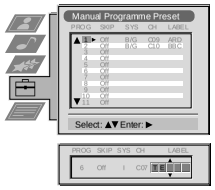
- Start the search for the next available channel by pushing to ▼.
- Store the channel by pressing OK or continue the search by pushing again to ▼.
- To search for other channels repeat steps 3 to 6b.

c For video input sources (EXT)

- Select the Video Input source using ▲ or ▼.
- Store your selection by pressing OK.
- To allocate other sources repeat steps 3 to 5c.

6 Press MENU to return to the normal TV screen.

Naming a channel



During tuning the channels are usually labelled automatically.
You can, however, individually name a channel or a video input source.

1 Press the MENU button on the remote control. Select the symbol using ▼. Push to ▶ to enter.

2 Select Installation using ▼. Push to ▶ to enter.
Select Manual Programme Preset using ▼. Push to ▶ to enter.

3 Select the programme position of the channel or the video source you wish to label by pushing to ▼ or ▲. Push repeatedly to ▶ until the first element of the position LABEL is highlighted.

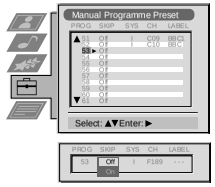
4 Select a number, a letter, + or a blank using ▲ or ▼. Push to ▶ to confirm.
Select the other four characters in the same way.

5 Store your selection by pressing OK.

6 To label other channels or video sources repeat steps 3 to 5.

7 Press MENU to return to the normal TV screen.

Skipping programme positions



In case of 100 programme positions there may be unused positions, which you can skip in the menu »Manual Programme Preset«. When changing channels with the PROGR +/– buttons they then do not appear.
You can, however, still select them using the number buttons.

1 Press the MENU button on the remote control. Select the symbol using ▼. Push to ▶ to enter.

2 Select Installation using ▼. Push to ▶ to enter.
Select Manual Programme Preset using ▼. Push to ▶ to enter.

3 Select the programme position you wish to skip by pushing to ▲ or ▼. Push to ▶ to enter.
The column SKIP is highlighted.

4 Select ON using ▼.

5 Store by pressing OK.

6 To skip other programme positions repeat steps 3 to 5.

7 Press MENU to return to the normal TV screen.

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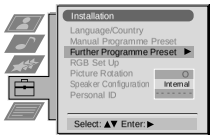
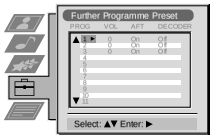
Operation (TV menu system):

Using the Further Programme Preset function





Using the menu Further Programme Preset you can

a) individually adjust the volume level of each channel.

b) improve the quality of a weak channel (picture or sound distortions) with manual fine tuning.

c) preset the AV output for programme positions of those channels with scrambled signals (e.g. from a Pay TV decoder). In this way a connected Smartlink VCR records the unscrambled signal.

1 Press MENU. Select the symbol using ▼. Push to ► to enter.

2 Select Installation using ▼. Push to ► to enter. Select Further Programme Preset using ▼. Push to ► to enter.

3 Select the programme position of the desired channel by pushing to ▲ or ▼. Push repeatedly to ► to select:
VOL (Volume Offset), AFT (Automatic Fine Tuning) or DECODER.
The selected item changes colour.

4a VOL
Push to ▲ or ▼ to adjust the volume level (range -7 to +7) of the channel.
Store by pressing OK.
Repeat steps 3 and 4a if you wish to adjust the volume level of other channels.

b AFT
Push to ▲ or ▼ to fine tune the channel (range -15 to +15). Store by pressing OK.
Repeat steps 3 and 4b if you wish to fine tune other channels.

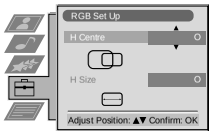
c DECODER
Push to ▲ or ▼ to select AV1 (Euro AV socket 1) or AV2 (Euro AV socket 2) as output for the video source on this programme position. Store by pressing OK.
Repeat steps 3 and 4c if you wish to preset the AV output of other video sources.

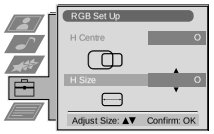
Should you use Auto Tuning afterwards, this setting will be cancelled.

5 Press MENU to return to the normal TV screen.

Adjusting the picture geometry for an RGB source

When connecting an RGB source such as a Sony playstation you may need to readjust the picture geometry.





1 Select the connected RGB source 1 by pressing repeatedly.

2 Press MENU. Select the symbol using ▼. Push to ► to enter.

3 Select Installation using ▼. Push to ► to enter. Select RGB Set Up using ▼. Push to ► to enter.

4 Select H Centre by pushing to ►. Adjust the centre of the picture (range from -10 to +10) using ▲ or ▼. Store by pressing OK.

5 Select H Size using ▼. Push to ► to enter. Adjust the horizontal coordinates (range from -10 to +10) using ▲ or ▼. Store by pressing OK.

6 Press MENU to return to the normal TV screen.

Optional Equipment

Smartlink

Smartlink is a direct link between your TV set and a VCR.

For Smartlink you need:

- A VCR which supports Smartlink, NexTView Link, Easy Link or Megalogic.
- A fully-wired 21-pin SCART cable to connect your VCR to Scart 2/ 2 connector.

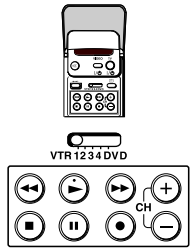
The features of Smartlink are:

- Tuning information such as the channel overview are downloaded from the TV set to the VCR.
- With NexTView you can programme your VCR easily.
- Direct TV recording: While watching TV you just need to press just one button on the VCR to record this programme.

For more information on Smartlink please refer to the Instruction Manual of your VCR.

Remote control of other Sony equipment

Using the buttons underneath the cover of the remote control you can control other Sony equipment.



1 Open the cover of the remote control.

2 Set the selector VTR 1234 DVD according to the equipment you want to control:
VTR 1 Beta VCR
VTR 2 8 mm VCR
VTR 3 VHS VCR
VTR 4 Digital Video (DCR-VX 1000/9000 E, VHR-1000)
DVD Digital Video Disk

3 Use the buttons on the remote control to operate the equipment.

- If your video equipment has a COMMAND MODE selector, set this selector to the same position as the VTR 1234 DVD selector on the TV remote control.
- If the equipment does not have a certain function, the corresponding button on the remote control does not work.

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Teletext

Most TV channels broadcast information via teletext. The index page of the teletext service (usually page 100) gives you information on how to use the service.

Please use a TV channel with a strong signal, otherwise there may be Teletext errors.

Switching Teletext on and off

1 Select the TV channel which carries the teletext service you want to view.

2a Press the button once on your remote control to switch Teletext on.
b Press again for Mix mode.
The TV broadcast and the Teletext display are overlapped.

3 Press or press a third time to switch teletext off.

Selecting a Teletext Page

Input the three digits of the page number using the number buttons on your remote control.

If you have made a mistake:
Type in any three digits, then re-enter the correct page number.

Page Catching

1 Using the number buttons on the remote control, select a teletext page which has several page numbers on it (e.g. the index page).

2 Press the OK button.
Page Catching is displayed.

3 Select the desired page number using ▲ or ▼ then press the OK button.
The requested page is displayed after some seconds.

Selecting the next or the preceding page

- Press (Page +) or (Page -).

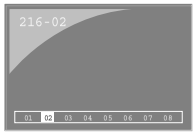
Selecting the index page

- Press .

Selecting a subpage

A teletext page may consist of several subpages. In this case an information line is displayed, showing the number of subpages.

- Select the mode by pushing to ▲. Select the subpage by using ▲ or ▼.



Freezing a Teletext subpage

1 Press to freeze the Teletext page.

2 Press to resume normal teletext reception.

Using Fastext*

*depending on availability of service

Fastext lets you access pages with one button stroke. When Fastext is broadcast, a colour-coded menu appears at the bottom of the screen. The colours of this menu correspond to the red, green, yellow and blue buttons on the remote control.

- Press the coloured button which corresponds to the colour in the colour-coded menu.

Using the Teletext menu

This TV set has a menu-guided teletext system. When teletext is switched on you can use the joystick buttons to operate the teletext menu.

Select the menu functions as follows:

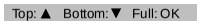
1 Press the MENU button on the remote control to display the Teletext menu.

2 Select the teletext function using ▲ or ▼. Push to ▶ to enter.

Top/Bottom/Full

For convenient reading of a Teletext page you can enlarge it.
After having selected the function, a sub menu Top ▲ Bottom ▼ Full OK is displayed.

- Push to ▲ to enlarge the upper half of the screen, push to ▼ to enlarge the lower half. Press OK to resume the normal size. Press to resume the normal Teletext operation.



Text Clear

After having selected the function, you can watch a TV channel while waiting for a requested Teletext page. As soon as the page is available, the symbol changes colour.

- Press to view the page.

Reveal

Some teletext pages contain hidden information (e.g., for a quiz), which you can reveal.
After having selected the function, the hidden information appears.

- Press to resume the normal Teletext operation.

Time Page*

*depending on availability of service

You can call up a time-coded page - such as an alarm page - at a time specified by you.

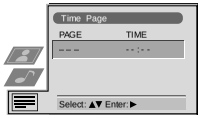
After having selected the function a sub menu is displayed.

1 Select On using ▲ or ▼. Push to ▶ to enter.

2 Enter the three digits of the desired page using the number buttons.

3 Enter the four digits of the desired time using the number buttons.

4 Press OK to store.
The time is displayed in the top left-hand corner of the screen.
At the requested time the page is displayed.



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Additional Information

Specifications

Television system	B/G/H, D/K, I, L
Colour system	PAL, SECAM, NTSC 3.58/4.43 (via Video In)
Channel coverage	See Channel Guide on next page
Picture tube	FD Trinitron KV-28FC60/28FC60-Z Approx. 71 cm (28 inches) Approx. 66 cm picture measured diagonally 102° deflection KV-32FC60/32FC60-Z Approx. 82 cm (32 inches) Approx. 76 cm picture measured diagonally 102° deflection
Sockets (Rear)	1/1: 21-pin scart connector input of audio/video or RGB signals output of TV signals 2/2:21-pin scart connector input of audio/video or S-video signals selectable output of audio/video signals 3/3:21-pin scart connector input of audio/video or S-video signals output of audio/video signals (monitor out) L/G/S/I RCA-connectors, R/D/D/D variable output for audio signals External speaker terminals:2-pin DIN (2) 3 : 4-pin DIN input of S-video signals 3 Phono jack input of video signals ≤ 3 Phono jacks input of audio signals
Sockets (Front)	Headphones jack -stereo minijack
Sound output	Right and left speaker 2 x 25W (music power), 2 x 15W (RMS)
Power consumption	KV-28FC60/28FC60-Z: 132 W KV-32FC60/32FC60-Z: 130 W
Dimensions	KV-28FC60/32FC60-Z 772(w) x 497(h) x 533(d) mm KV-32FC60/32FC60-Z 867(w) x 564(h) x 558(d) mm
Weight	KV-28FC60/28FC60-Z Approx. 42.5 kg KV-32FC60/32FC60-Z Approx. 65 kg
Accessoires supplied	1 Remote Control RM-892 2 Batteries 1 Instruction Manual
Other Features	Flat display Trinitron tube, digital noise reduction, 100 Hz picture, graphic equaliser, personal ID, sleep timer, NexTView, NICAM stereo, Digital Comb Filter

Troubleshooting

Here are some simple solutions to problems which may affect the picture and sound.

Problem	Solution
No picture (screen is dark), no sound	• Plug the TV in. • Press ⏻ on the TV. (If ⏻ indicator is on, press 🖵 , PROGR+/- or one of the numbered buttons on the remote control.) • Check the aerial connection. • Check if the selected video source is on. • Turn the TV off for 3 or 4 seconds and then turn it on again using ⏻ .
Poor or no picture (screen is dark), but good sound	• Press MENU. Select 👤 and adjust Brightness, Contrast and Colour.
Good picture, but poor or no sound	• Press 🔊 + . • If 🔇 is displayed on the screen, press 🔇 button.
No colour for colour programmes	• Open the cover of the remote control. Press ⇢ button.
Remote control does not function	• Replace the batteries.
Control Panel does not function	• Make sure Parental lock is Off.

Note: As with some other electrical appliances under certain circumstances there is potential for small electrostatic discharge to occur.

If you continue to have problems, have your TV serviced by qualified personnel. Never open the casing yourself.

Channel Guide

TV System	Receivable Channels	Channel Display
B/G/H	E2 .. 12, 21 .. 69	C02 C03 C04 .. C12 C21 .. C69
TV Cable (1)	S1 .. 41	S01 S02 .. S41
TV Cable (2)	S01 .. S05, M1 .. M10, U1 .. U10	S42 .. S46 S01 .. S10 S11 .. S20
Italy	A B C D E F G H H1 H2, 21 .. 69	C13 C14 C15 C16 C17 C18 C19 C20 C11 C12, C21-C69
D/K	R01 .. R12, R21 .. R69	C01 .. C12 C21 .. C69
TV Cable (1)		S01 S02 .. S41
TV Cable (2)		S42 S43 .. S46
TV Cable	B .. Q*, S21 .. F41	S02, S03 .. S17, S21 .. S41
L	F2 .. F10 F21 .. F69	C01 .. C12, C21 .. C69
I	B21 .. B68	C21 .. C68

* If channels B..Q are available, the display S02-S17 will appear on the screen.

SECTION 2 DISASSEMBLY

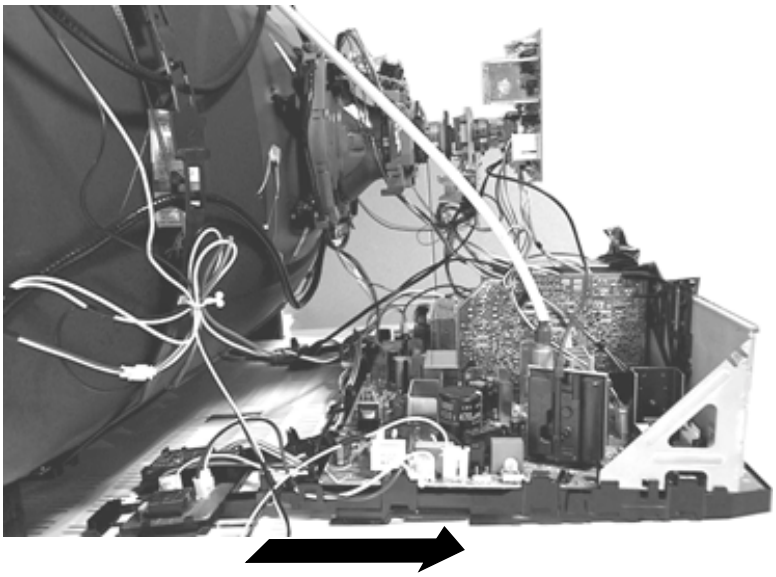
2-1. Rear Cover Removal

Remove the rear cover fixing screws indicated. Take care when removing the rear cover not to damage the speaker cables [Disconnect the speaker connector] as speakers are fitted inside the rear cover.

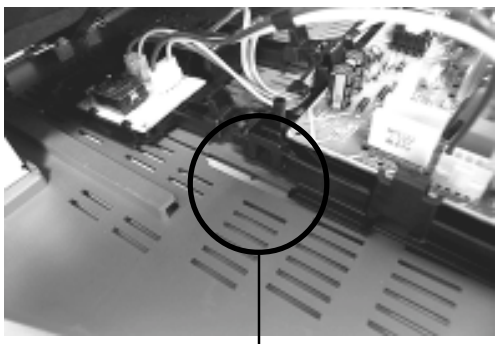
2-2. Speaker Connector Disconnection

Before completely removing the rear cover disconnect the speaker connector.

2-3. Chassis Removal and Refitting



To remove lift the main bracket rear slightly and slide the chassis away from the beznet. Ensure that the interconnecting leads are released from their purse locks to prevent damage being caused.



When refitting the chassis ensure that the main bracket is located in the beznet guide slots before sliding the chassis forwards. Refit the interconnecting leads in their respective purse locks.

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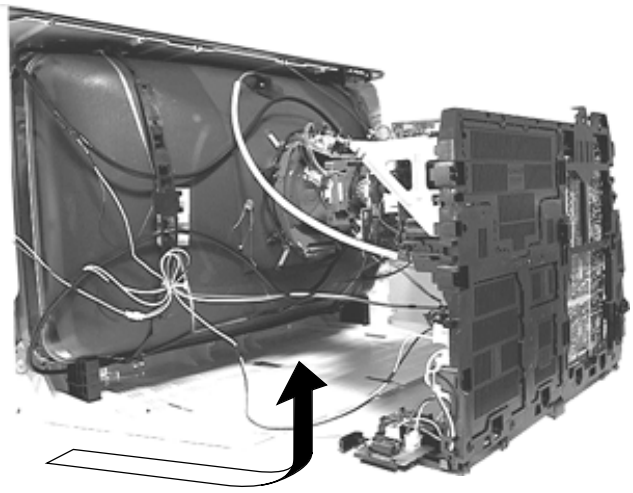
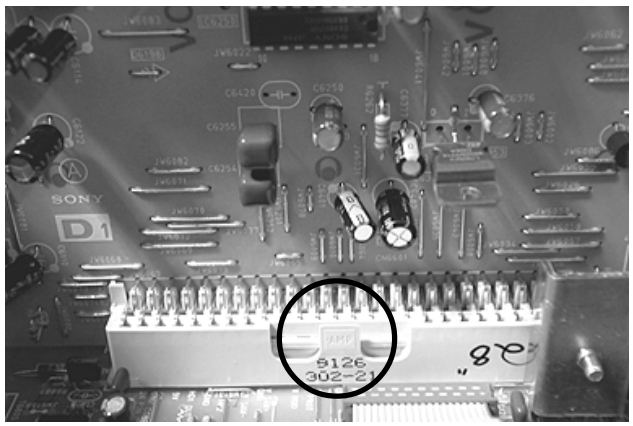
2-4. Service Position



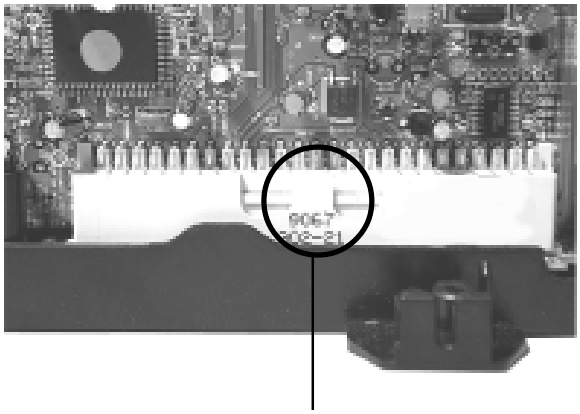
Position the PWB as indicated to access the solder side.
To gain access to the D Board follow the instructions on page 19. [Removal and Replacement of the main bracket bottom plates].

2-5. D1 Board Removal



To remove the D1 Board release the clip circled and gently remove the board in a vertical direction.

2-6. J Board Removal



Release the clip and carefully remove the board in a vertical direction.

Note :
Removal of the B1, E, M, and U printed circuit boards follows the same procedure of releasing the securing clips as indicated in the figs for D1 and J board removal.
Take care not to apply to great a pressure to the clips as this may cause damage.

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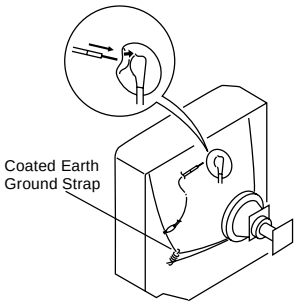
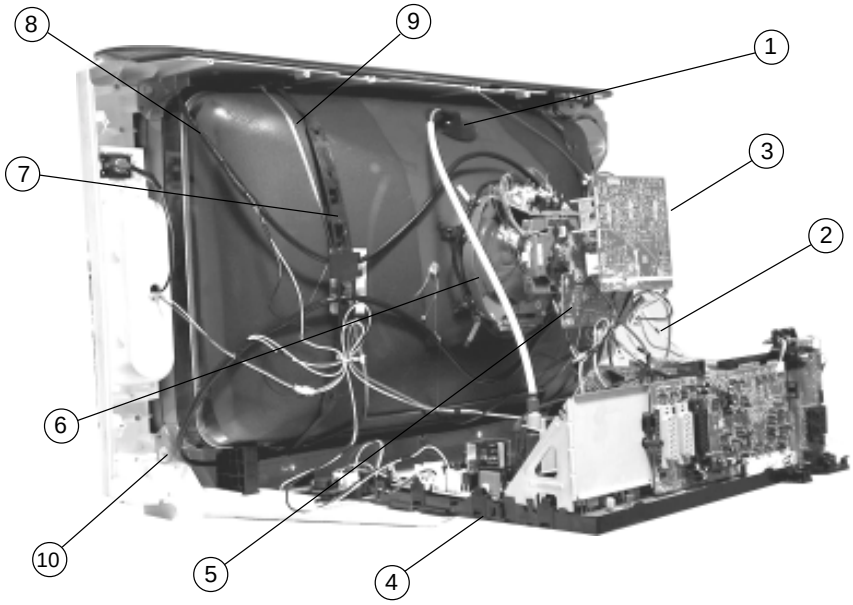
2-7. Picture Tube Removal

WARNING:
BEFORE REMOVING
THE ANODE CAP

High voltage remains in the CRT even after the power is disconnected. To avoid electric shock, discharge CRT ***before*** attempting to remove the anode cap. Short between anode and CRT coated earth ground strap.

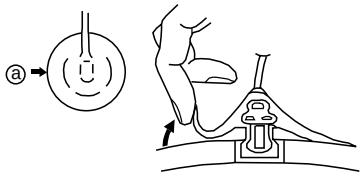




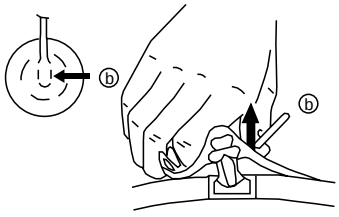
1. Discharge the anode of the CRT and remove the anode cap.
2. Unplug all interconnecting leads from the Deflection yoke, neck assy, degaussing coils and CRT grounding strap.
3. Remove the C Board from the CRT.
4. Remove the chassis assembly.
5. Loosen the Neck assembly fixing screw and remove.
6. Loosen the Deflection yoke fixing screw and remove.
7. Place the set with the CRT face down on a cushion and remove the Degaussing Coil holders.
8. Remove the Degaussing Coils.
9. Remove the CRT grounding strap and spring tentioners.
10. Unscrew the four CRT fixing screws [located on each CRT corner] and remove the CRT.
    [Take care not to handle the CRT by the neck.]

Removal of the Anode-Cap

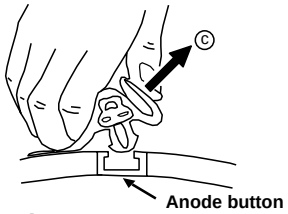
*** REMOVING PROCEDURES.**



① Turn up one side of the rubber cap in the direction indicated by the arrow ⓐ



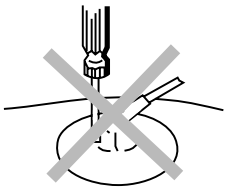
② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow ⓑ

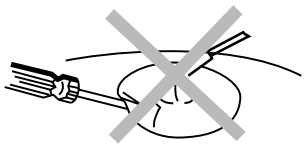


③ When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling it up in the direction of the arrow ⓒ

How to handle the Anode-Cap

1. To prevent damaging the surface of the anode-cap do not use sharp materials.
2. Do not apply too great a pressure on the rubber, as this may cause damage to the anode connector.
3. A metal fitting called a shatter hook terminal is fitted inside the rubber cap.
   Do not turn the rubber foot over excessively, this may cause damage if the shatter hook sticks out.





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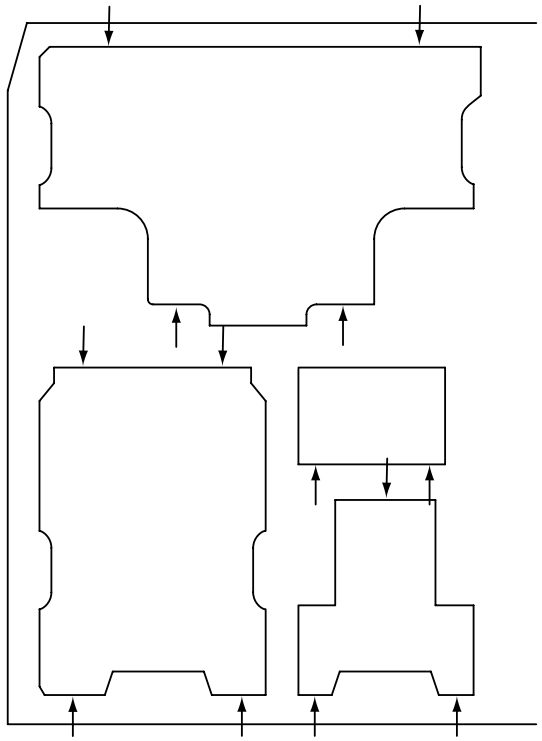
REMOVAL AND REPLACEMENT OF THE MAIN-BRACKET BOTTOM PLATES.

(1) REMOVING THE PLATES

In the event of servicing being required to the solder side of the D Board printed wiring board, the bottom plates fitted to the main chassis bracket require to be removed.
This is performed by cutting the gates with a sharp wire cutter at the locations indicated by the arrows.

Note : There are 4 plates fitted to the main bracket and secured by 4 gates.
Only remove the necessary plate to gain access to the printed wiring board.

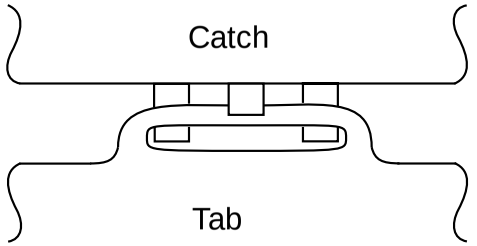


⚠ For safety reasons, on no account should the plates be removed and not refitted after servicing.

(2) REFITTING THE PLATES

Because the plates differ in size it is important that the correct plates are refitted in their original location.

Please note that the plates need to be rotated 180 degrees from their cut position to allow the tabs to be fitted into their catch positions.



SECTION 3 SET-UP ADJUSTMENTS

- When complete readjustment is necessary or a new picture tube is installed, carry out the following adjustments.
- Unless there are specific instructions to the contrary, carry out these adjustments with the rated power supply.
- Unless there are specific instructions to the contrary, set the controls and switches to the following settings :

  Contrast ..... normal

  Brightness ..... normal

Carry out the adjustments in the following order :

3-1. Beam Landing.
3-2. Convergence.
3-3. Focus.
3-4. White Balance.

Note : Test equipment required.
1. Color bar/pattern generator.
2. Degausser.
3. Oscilloscope.
4. Digital multimeter.

3-1. Beam Landing

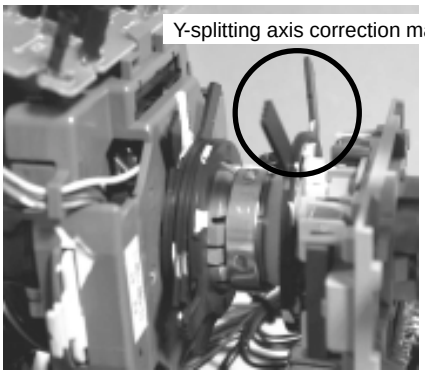
Preparation :

1. In order to reduce the influence of geomagnetism on the set's picture tube, face it in an easterly or westerly direction.
2. Switch on the TV set's power and degauss with a degausser.

(1) Adjustment of Correction Magnet for Y-Splitting Axis.

1. Input a crosshatch signal from the pattern generator.
2. Set the Picture control to minimum and confirm that the Brightness control is set to normal.
3. Position the neck assembly as indicated in Fig.3-2.
4. Loosen the deflection yoke fixing screw.
5. Move the deflection yoke as far forward as is possible.
6. Adjust the upper and lower pin symmetrically by opening or closing the Y-splitting axis correction magnets located on the neck assembly.
7. Return the deflection yoke to its original position and re-tighten its fixing screw.

Fig.3-1



Caution :

High voltages are present on the Deflection yoke terminals - take care when handling the Deflection yoke whilst carrying out adjustments.

(2) Landing

Note : Before carrying out the following adjustments adjust the magnets as indicated below [See Fig.3-3].

1. Input an all-white signal from the pattern generator. Maximize the picture setting and adjust the Brightness setting.
2. Rough-adjust the focus and horizontal convergence.
3. Loosen the deflection yoke screws and align the purity adjustment knob to its central position. [See Fig.3-3].
4. Switch from the all-white pattern to an all-green pattern.
5. Move the deflection yoke backwards and adjust with the purity magnet so that the green is at the centre and it aligns symmetrically [See Fig.3-4].
6. Move the deflection yoke forward and adjust so that the entire screen becomes green.
7. Switch the raster signal to red, then to blue and verify the landing condition.
8. When the position of the deflection yoke has been determined, fasten the deflection yoke with its fixing screw.
9. If the beam does not land correctly in all the corners of the screen, use magnets to correct it.

Fig.3-2

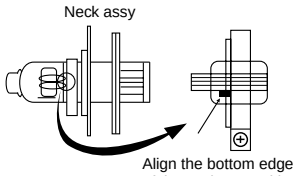
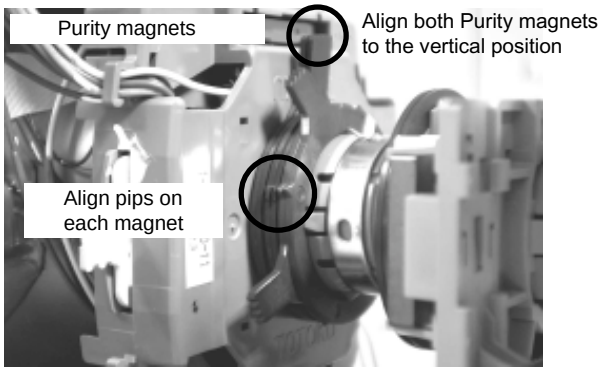


Fig.3-3



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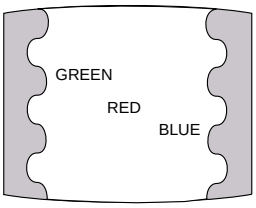
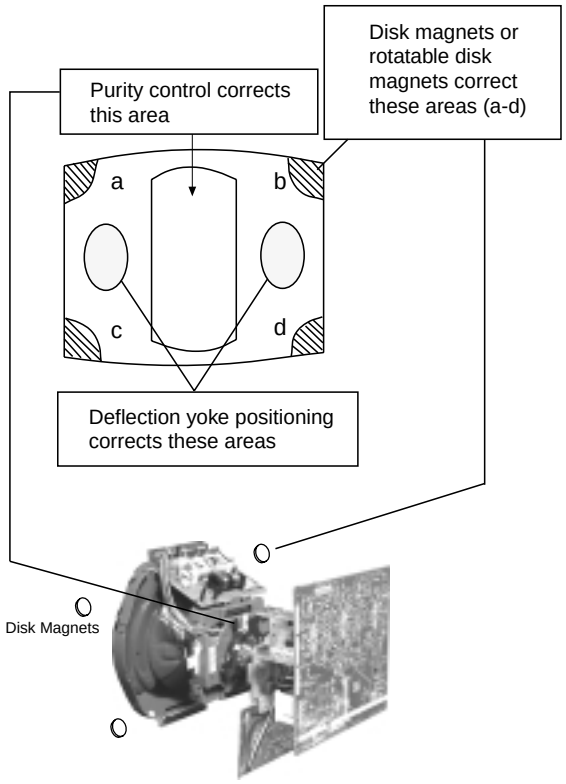
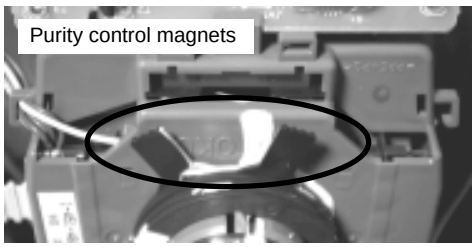
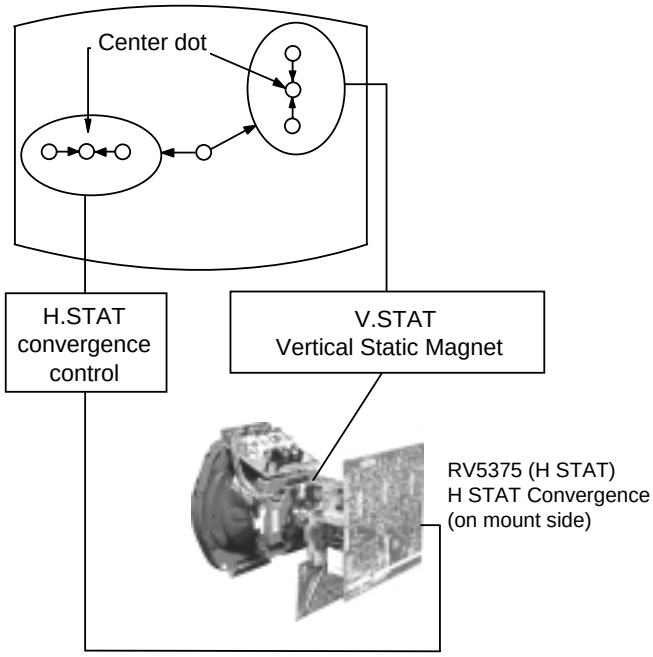


Fig.3-4





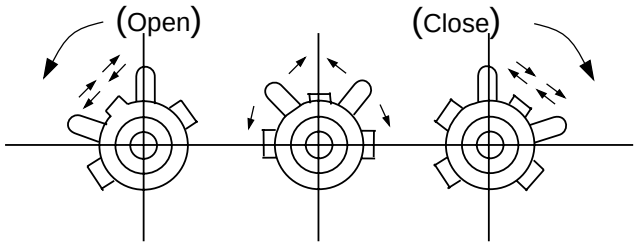


3-2. Convergence

(1) Screen centre convergence [Static convergence]

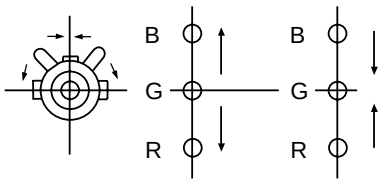
1. Input a dot pattern signal from the pattern generator.
2. Normalize the picture setting.
3. [Moving horizontally], adjust the H.STAT control so that the horizontal red, green and blue dots coincide at the centre of the screen.
4. [Moving horizontally], adjust the V.STAT magnet so that the vertical red, green and blue dots coincide at the centre of the screen.

- If the horizontal dots are unable to coincide with the variable range of the H.STAT convergence, adjust together with the V.STAT convergence whilst tracking.
  [Adjust the convergence by tilting the V.STAT convergence or by opening and closing the V.STAT convergence.]

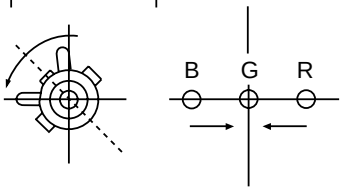


4. Movement of the red, green and blue dots by tilting the V.STAT magnet and by opening or closing the V.STAT magnet.

a). By opening or closing the V.STAT magnet, the red green and blue dots move in the direction indicated below.



b). By rotating the V.STAT magnet counter clockwise, the red, green and blue dots move as indicated.



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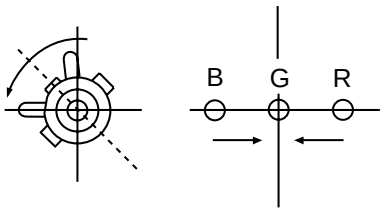
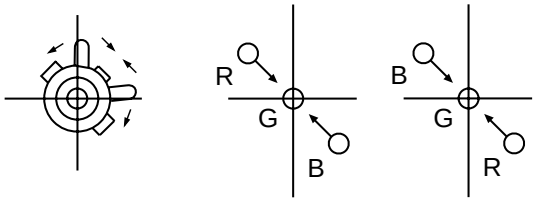
c). By rotating the V.STAT magnet clockwise, the red, green and blue dots move in the direction indicated below.



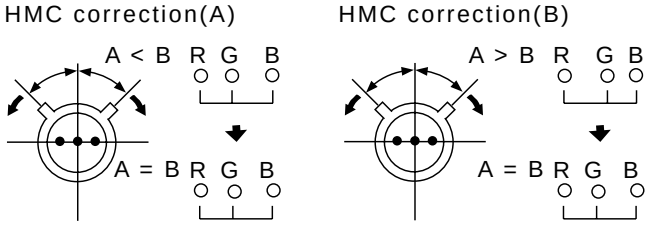
d). By opening or closing the V.STAT magnet, the red green and blue dots move in the direction indicated below.



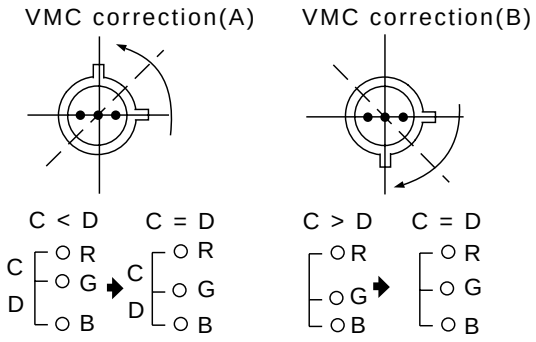
Note : If the blue dot does not coincide with the red and green points, correct the points by using the BMC [Hexapole] magnet.

5. Correction for HMC [Horizontal mis-convergence] and VMC [Vertical mis-convergence] by using the BMC [Hexapole] magnet.

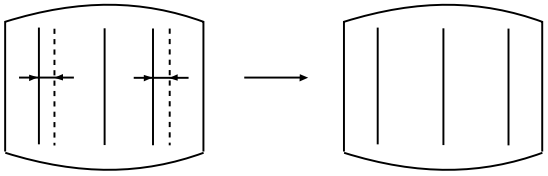
a). HMC correction by BMC [Hexapole] magnet and movement of the electron beam.



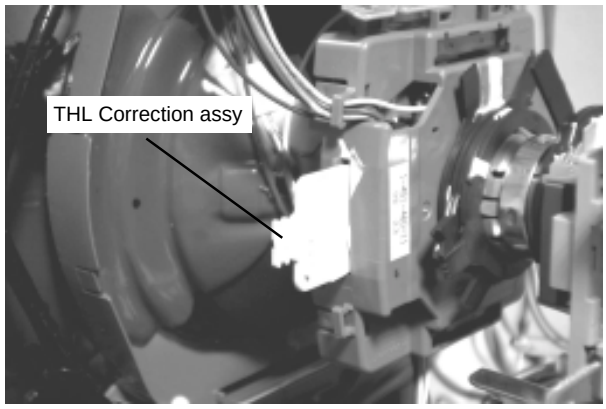
b). VMC correction by BMC [Hexapole] magnet and movement of the electron beam.



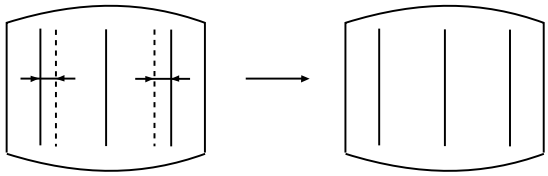
HAMP



7. HTIL correction can be performed by adding a THL correction assembly to the Deflection yoke.



HTIL



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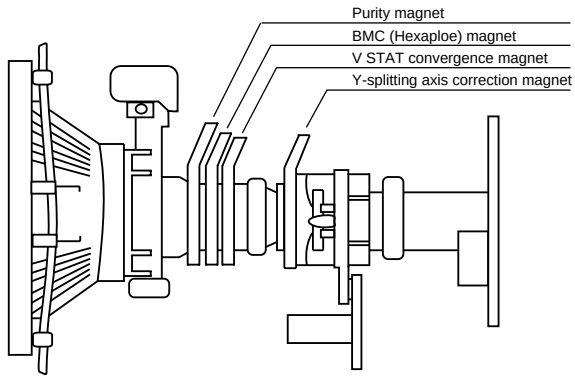
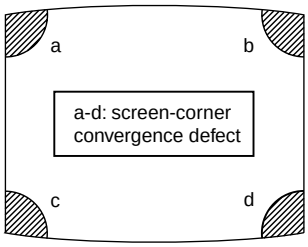
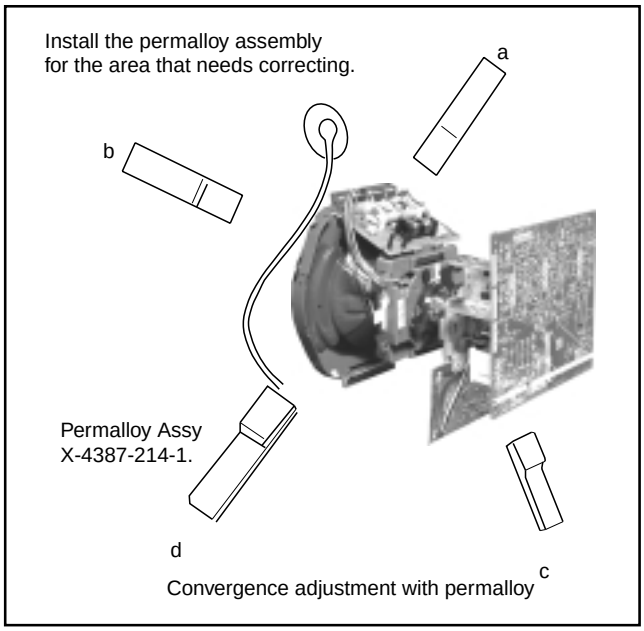
Layout of each control



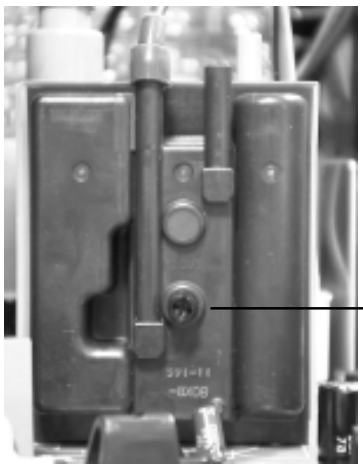
Note : If you are unable to adjust the corner convergence properly, this can be corrected with the use of permalloy magnets.





3-3. Focus Adjustment

1. Receive a television broadcast signal.
2. Normalize the picture setting.
3. Adjust the focus control located on the flyback transformer to obtain the best focus at the centre of the screen.
   Bring only the centre area of the screen into focus, the magenta-ring appears on the screen. In this case, adjust the focus to optimize the screen uniformly.



3-4. Screen (G2), White Balance

[Adjustment in the service mode using the remote commander]

G2 adjustment [RV5376]

1. Input a dot signal from the pattern generator.
2. Set the Picture, Brightness and Colour to minimum.
3. Apply 175V DC from an external power supply to the R, G and B cathodes of the CRT.
4. Whilst watching the picture, adjust the G2 control RV5376 [SCREEN] located on the C Board to the point just before the flyback return lines disappear.

White balance adjustment for TV mode

1. Input an all-white signal from the pattern generator.
2. Enter into the ‘Service Mode’ by pressing ‘TEST’, ‘TEST’ and ‘MENU’ ‘MENU’ on the Service Commander.
3. Select ‘Backend’ from the on screen menu display and press ‘OK’.
4. The ‘Backend’ menu will appear on the screen.[See Page 26]
5. Set the ‘Contrast’ to MAX.
6. Set the ‘R-Drive’ to 41.
7. Adjust the ‘G-Drive’ and the ‘B-Drive’ so that the white balance becomes optimum.
8. Press the ‘OK’ button to write the data for each item.
9. Set the ‘Contrast’ to MIN.
10. Set the ‘R-Cutoff’ to 31.
11. Adjust the ‘G-Cutoff’, and the ‘B-Cutoff’ with the left and right buttons on the remote commander so that the white balance becomes optimum.
12. Press the ‘OK’ button to write the data for each item.

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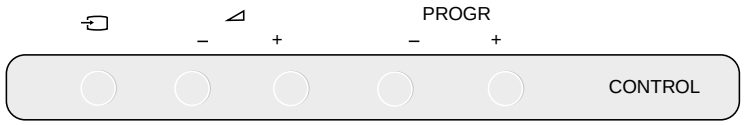
SECTION 4 CIRCUIT ADJUSTMENTS

4-1. Electrical Adjustments

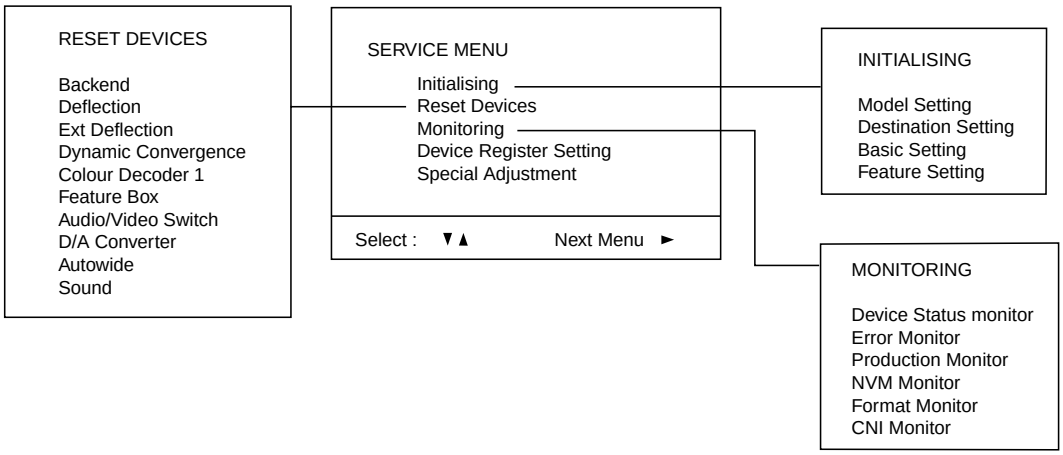
Service adjustments to this model can be performed using the supplied Remote Commander RM-892.

How to enter into the Service Mode

1. Turn on the main power switch of the set while pressing PROG + (plus) and PROG - (minus) buttons on the top control panel.



2. 'TT' will appear in the upper right corner of the screen.
3. Press the 'MENU' button twice on the remote commander to obtain the service menu on the screen.



4. Push the joystick up or down on the remote commander to select the adjustment item.
5. Push the right button to proceed to the next menu.
6. If the required adjustment item is 'Deflection', push the down button to move to 'Deflection'.
7. Push the joystick to the right to enter into 'Deflection'.
8. Change the data in order to comply with each standard.

Note :

- Before performing any adjustments ensure that the correct model has been selected in the 'Model Setting' menu.
- After carrying out the service adjustments, to prevent the customer accessing the 'Service Menu' switch the TV set OFF and then ON.

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Initialising Menu

```
Initialising

          Model Setting
          Destination Setting
          Basic Setting
          Feature Setting
Select :          Next menu:
```

Model Setting

The menu contains a list with all the available models of this software to set up the TV set in an easy way. The selection of a model is setting data for its features and hardware resources which cannot detected by the automatic power on H/W detection as well as a special *model byte* to get an unique model identification for models which cannot be differed by features and hardware resources (e.g. KV-28FC60 and KV-28FC60Z)

Before data is set, the user will be asked if he really wants to set a new model. If the user agrees, automatically the destination setting menu is shown.

Model Setting

1	KV-29FX60	Reset
2	KV-29FC60	
3	KV-29FS60	
4	KV-28FX60	
5	KV-32FX60	
6	KV-32FS60	
7	KV-28FC60	
8	KV-32FC60	
9	KV-28FC60Z	
10	KV-32FC60Z	

BLACK = No Conformity
GREEN = Compatible Model
RED = Conformity for all data

Table.4-1

Indication of Model Compatibility.

Black:
If any data does not match to specific model, the model name is displayed in black.
Green:
All data which is checked by model setting menu concurs to model except model byte.
Red:
All data which is checked by model setting menu concurs to model including model byte.

Note:
After selecting a model, it may be necessary to reset some devices to get the correct data. (Treble/Bass Offset of Sound, deflection adjustments, ...)

Basic Setting

No	Descr	Min	Max	Data
1	Sys B/G	OFF	ON	ON
2	Sys D/K	OFF	ON	ON
3	Sys L	OFF	ON	ON
4	Sys I (UK)	OFF	ON	ON
5	Sys I (IRL)	OFF	ON	OFF
6	Russian Sound	OFF	ON	OFF
7	TXT Nat.Option	1	4	3
8	Simple PAT	OFF	ON	OFF
9	16:9 CRT	OFF	ON	ON
10	SubWoofer	OFF	ON	ON
11	Auto Stand-by	OFF	ON	ON
12	Comb-Filter	OFF	ON	ON
13	Auto YC Det	OFF	ON	ON
14	Auto Comb Det	OFF	ON	ON
15	AV2 Available	OFF	ON	ON
16	AV3 Available	OFF	ON	ON
17	AV4 Available	OFF	ON	OFF
18	AV3 Front & Rear	OFF	ON	ON
19	SECAM Tape	OFF	ON	ON
20	AV1 Sound Mute	OFF	ON	OFF

Table.4-2

Dynamic Convergence

No	Descr	Def	Min	Max	Data
1	Range	63	0	63	63
2	H Stat	33	0	63	33
3	H-Amp L	37	0	63	37
4	H-Amp R	36	0	63	36
5	Up Y	31	0	63	31
6	Low Y	33	0	63	33
7	Y up L	30	0	63	30
8	Y up R	30	0	63	30
9	Y low L	31	0	63	31
10	Y low R	30	0	63	30
11	M bow up L	31	0	63	31
12	M bow up R	32	0	63	32
13	M bow low L	32	0	63	32
14	M bow low R	32	0	63	32
15	V Stat	32	0	63	32
16	T Cor PCtrl	OFF	OFF	ON	OFF
17	Top Cor Pin	31	0	63	31
18	B Cor PCtrl	OFF	OFF	ON	ON
19	Bot Cor Pin	31	0	63	32

Table.4-3

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Feature Setting

No	Descr	Def	Max	Data
1	EPG	OFF	ON	ON

Table.4-4

Backend

No	Descr	Def	Min	Max	Data
1	R-On	ON	OFF	ON	ON
2	G-On	ON	OFF	ON	ON
3	B-On	ON	OFF	ON	ON
4	D-Col	OFF	OFF	ON	OFF
5	Color-Axis	2	0	3	2
6	Contrast	44	0	63	44
7	Limit-Lvl	3	0	3	3
8	Hue	32	0	63	32
9	Colour	31	0	63	31
10	CTI-Level	2	0	3	2
11	Brightness	31	0	63	31
12	Gamma	3	0	3	3
13	Sharpness	44	0	63	41
14	R-Drive	41	0	63	41
15	G-Drive	41	0	63	33
16	B-Drive	41	0	63	24
17	ABL-Mode	0	0	3	0
18	Sub Bright	31	0	63	29
19	VM-Level	2	0	3	2
20	R-Cutoff	31	0	63	31
21	Pre/Over	2	0	3	2
22	G-Cutoff	31	0	63	16
23	DPIC-Level	1	0	3	1
24	B-Cutoff	31	0	63	30
25	DC-Tran	0	0	3	0
26	Sub-Cont	7	0	15	7
27	LRGB2-Lvl	8	0	15	8
28	P-Abl	15	0	15	15
29	Sharp FO	ON	OFF	ON	ON
30	Aging-W	OFF	OFF	ON	OFF
31	Aging-B	OFF	OFF	ON	OFF
32	CB-Offset1	7	0	15	7
33	CR-Offset1	7	0	15	7
34	CB-Offset2	7	0	15	7
36	Sub Colour	0	-8	8	-6

Table.4-5

Ext. Deflection

No	Descr	Def	Min	Max	Data
1	Linearity	128	0	255	128
2	H Centre	32	0	63	32
3	H Trap	32	0	63	32
4	Rotation	0	0	255	0

Table.4-6

Colour Decoder 1

No	Descr	Def	Min	Max	Data
1	Tint	31	0	63	31
2	P/N Gw	OFF	OFF	ON	OFF
3	P/N ID	OFF	OFF	ON	OFF
4	Sub Colour	7	0	15	7
5	Sub Contr	7	0	15	7
6	Sharp FO	1	0	3	1
7	Sharp EQ	2	0	3	2
8	Sharp Gain	8	0	15	8
9	Y-Out Lev	35	0	63	35
10	BS Point	0	0	3	0
11	C-Cut Lev	50	0	63	50
12	DC Rest	0	0	3	0
13	BPF FO	2	0	3	2
14	BPF Q	1	0	3	1
15	Filter Sw	OFF	OFF	ON	OFF
16	C-Trap Sw	OFF	OFF	ON	OFF
17	S-D Trap	ON	OFF	ON	ON
18	LPF	ON	OFF	ON	ON
19	Colour Sys	0	0	7	0
20	Y-DL	8	0	10	8
21	N-Comb	ON	OFF	ON	ON
22	Video Sel	0	0	15	0
23	RGB Sel	0	0	3	0
24	Halftone	OFF	OFF	ON	OFF
25	CbCr Mute	OFF	OFF	ON	OFF
26	CrOFF.1	7	0	15	7
27	CbOFF.1	7	0	15	7
28	CrOFF.2	7	0	15	7
29	CbOFF.2	7	0	15	7
30	VCD Freq	3	0	7	3
31	VCD Mode	0	0	3	0
32	AFC SENS	1	0	3	1
33	MVM	OFF	OFF	ON	OFF
34	S-R-Y Adj	7	0	15	7
35	S-B-Y Adj	2	0	15	2
36	BELL/HPF	2	0	3	2
37	BELL FO	OFF	OFF	ON	OFF
38	S-VID	OFF	OFF	ON	OFF
39	S-GP	0	0	3	0
40	S ID	OFF	OFF	ON	OFF
41	S-INHBT	OFF	OFF	ON	OFF
42	RGB1 ENB	OFF	OFF	ON	OFF
43	SETUP-SW	OFF	OFF	ON	OFF
44	KS-PH	1	0	1	1
45	S/N RATIO	3	0	3	3

Table.4-7

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Feature High - End

No	Descr	Def	Min	Max	Data
1	Init	OFF	OFF	ON	OFF
2	HC-Direct	OFF	OFF	ON	OFF
3	Auto HCO	OFF	OFF	ON	OFF
4	Field-Freq	OFF	OFF	ON	OFF
5	Disp-Freq	0	0	3	0
6	Acqu-Freq	1	0	3	1
7	Still Pic	OFF	OFF	ON	OFF
8	Auto Movie	ON	OFF	ON	ON
9	Phase	ON	OFF	ON	ON
10	Movie	OFF	OFF	ON	OFF
11	Nature Mot	ON	OFF	ON	OFF
12	LFR Mode	ON	OFF	ON	ON
13	V-Zoom Sw	OFF	OFF	ON	OFF
14	Sat mode	OFF	OFF	ON	OFF
15	G-Mode	OFF	OFF	ON	OFF
16	S.D.A.F	ON	OFF	ON	ON
17	V-Zoom	0	0	15	0
18	No Feat Md	OFF	OFF	ON	OFF
19	Split Scr	0	0	3	0
20	Noise Reduc	1	0	3	1
21	Set Vd	OFF	OFF	ON	OFF
22	Set Hd	ON	OFF	ON	ON
23	Set Vdmsb	OFF	OFF	ON	OFF
24	Set Hdmsb	ON	OFF	ON	ON
25	Set Hddel	OFF	OFF	ON	OFF
26	Set Vwe2	OFF	OFF	ON	OFF
27	Set Hwe2	OFF	OFF	ON	OFF
28	St Hor Delay	OFF	OFF	ON	OFF
29	Ena Hwe Mdly	ON	OFF	ON	ON
30	Ena Outsel	OFF	OFF	ON	OFF
31	Set Nr	OFF	OFF	ON	OFF
32	EnaHreShft	ON	OFF	ON	ON
33	Vect.Ovl	OFF	OFF	ON	OFF
34	Set Nm	OFF	OFF	ON	OFF
35	F.S.F.M	OFF	OFF	ON	OFF
36	Enable Vwe	OFF	OFF	ON	OFF
37	Vwe	0	0	127	0
38	DispAdjVre	OFF	OFF	ON	OFF
39	V-Capture	OFF	OFF	ON	OFF
40	Panic mode	ON	OFF	ON	ON
41	Panic Ctrl	0	0	31	0
42	P3.5	OFF	OFF	ON	OFF
43	P3.4	OFF	OFF	ON	OFF
44	P1.5	OFF	OFF	ON	OFF
45	P1.3	OFF	OFF	ON	OFF
46	P1.4	OFF	OFF	ON	OFF
47	DisBlkAdj	OFF	OFF	ON	OFF
48	P2.7	OFF	OFF	ON	OFF
49	P2.6	OFF	OFF	ON	OFF
50	P2.5	OFF	OFF	ON	OFF
51	P2.4	OFF	OFF	ON	OFF
52	P2.3	OFF	OFF	ON	OFF
53	P2.2	OFF	OFF	ON	OFF
54	P2.1	OFF	OFF	ON	OFF
55	P2.0	OFF	OFF	ON	OFF
56	Hor Delays	0	0	255	0
57	Hwe2sta	0	0	255	0
58	Hwe2sto	0	0	255	0

Table.4-8

Feature High - End

No	Descr	Def	Min	Max	Data
59	Vwe2sta	28	0	255	28
60	Vwe2sto	47	0	255	47
61	Hddel	0	0	255	0
62	Hdmsb	0	0	255	0
63	Vdmsb	0	0	255	0
64	Hdsta	0	0	255	0
65	Hdsto	0	0	255	0
66	Vdsta	0	0	255	0
67	Vdsto	0	0	255	0
68	Hwe1Mdelay	35	0	255	44
69	Bad Limit	0	0	255	0
70	ReliaThres	0	0	255	0
71	Movie Min	10	0	255	10
72	VideoCTMax	50	0	255	50
73	Kstep01	0	0	255	0
74	Kstep23	0	0	255	0
75	Kstep45	0	0	255	0
76	Kstep67	0	0	255	0
77	Kfixed	0	0	255	0
78	Tfilter12	0	0	255	0
79	Def	0	0	255	0
80	PicPcs	0	0	3	0
81	HreShift	0	0	255	0

Table.4-9

Audio / Video Switch

No	Descr	Def	Min	Max	Data
1	CVOUT1	0	0	7	0
2	CVOUT2	0	0	7	0
3	GD1 SW	OFF	OFF	ON	OFF
4	GD2 SW	OFF	OFF	ON	OFF
5	YCOUT 1	0	0	7	0
6	YCOUT 2	0	0	7	0
7	LO0CTRL	OFF	OFF	ON	OFF
8	LO1CTRL	OFF	OFF	ON	OFF
9	AOUT 1	1	0	7	1
10	AOUT 2	1	0	7	1
11	AOUT 3MUTE	OFF	OFF	ON	OFF
12	ZCD SW	ON	OFF	ON	ON
13	AOUT 3	1	0	7	0
14	GROUP	15	0	31	15
15	AOUT3 L/R	0	0	3	0
16	AOUT3VOLF	0	0	7	0
17	AOUT3VOLC	5	0	7	5

Table.4-10

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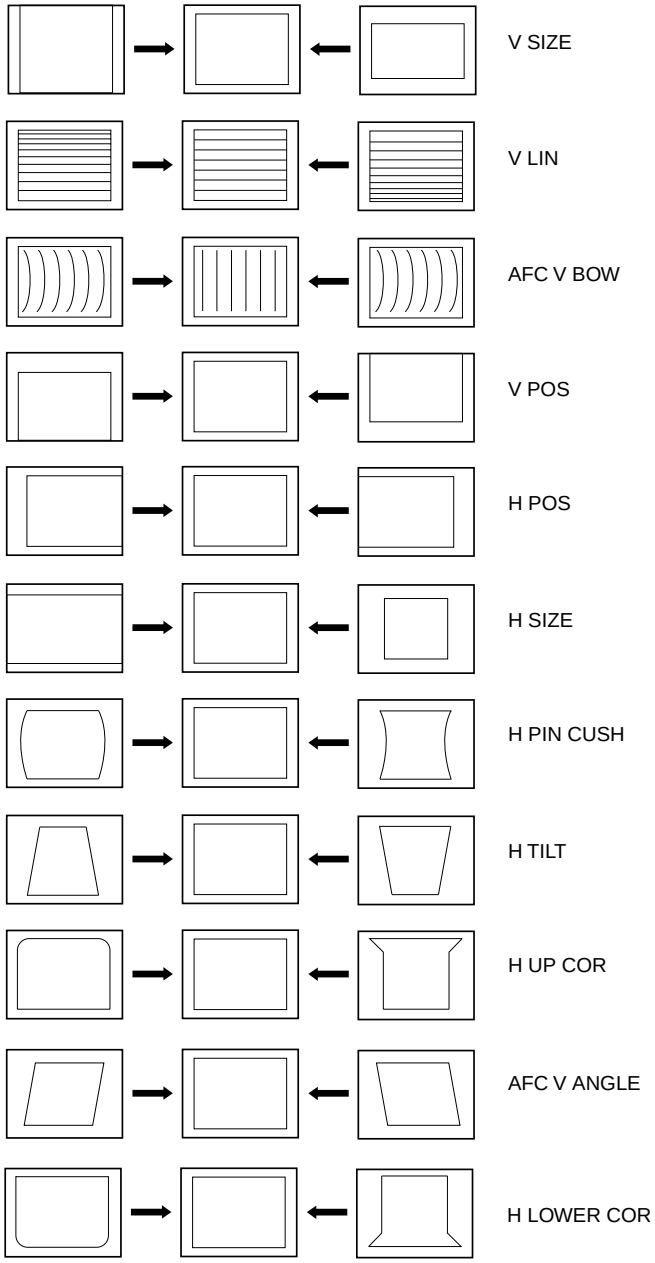
Deflection					
No	Descr	Def	Min	Max	Data
1	V-Size	31	0	63	42
2	V-Position	31	0	63	31
3	V-Comp	1	0	3	1
4	V-Linear	7	0	15	8
5	S-Corr	7	0	15	8
6	H-Size	31	0	63	55
7	EW-DC	OFF	OFF	ON	OFF
8	Akb Tim2	OFF	OFF	ON	OFF
9	Pin-Amp	31	0	63	43
10	H-Comp	0	0	3	0
11	Up-Cpin	31	0	63	31
12	M-Pin	2	0	3	2
13	Lo-CPin	31	0	63	38
14	Trapezium	7	0	15	4
15	H-Position	31	0	63	25
16	VblKw	0	0	3	0
17	AFC-Bow	7	0	15	6
18	AFC-Angle	7	0	15	8
19	Left-Blk	52	0	63	52
20	Right-Blk	11	0	63	11
21	V-Freerun	0	0	3	0
22	V-Aspect	0	0	63	0
23	Zoom-Sw	OFF	OFF	ON	OFF
24	U-Scan	OFF	OFF	ON	OFF
25	V-Scroll	31	0	63	31
26	Akb-Tim	2	0	3	2
27	Up-Vlin	0	0	15	0
28	Lo-Vlin	0	0	15	0
29	MPIP PAmp	-5	-10	10	-1
30	MPIPUCPin	0	-10	10	2
31	MPIPLCPin	0	-10	10	0
32	MPIP Trap	0	-10	10	1
33	EPG PAmp	-3	-10	10	-6
34	EPG UCPin	0	-10	10	-3
35	EPG LCPin	1	-10	10	-1
36	EPG Trap	0	-10	10	-1

Table.4-11



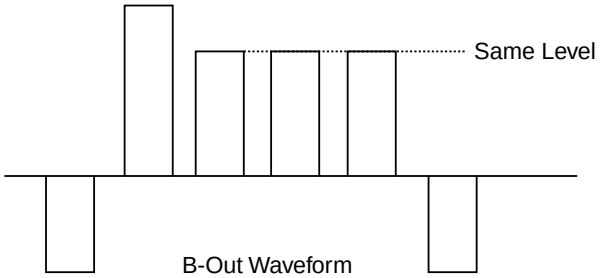
Deflection System Adjustment

1. Enter into the service mode and select ‘Deflection’ from the menu. The ‘Deflection’ adjustment menu will be displayed.
2. Select and adjust each item to obtain the optimum image.

4-2. Volume Electrical Adjustments

Sub Colour Adjustment

1. Input a PAL colour bar signal.
2. Connect an oscilloscope to CN5400 pin 5 located on the C Board.
3. Enter into the ‘Service Mode’.
4. Choose ‘Backend’ from the menu.
5. Adjust ‘Sub Colour’ data so that the right sides of the waveform are of equal height.



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Sound

No	Descr	Def	Min	Max	Data
1	Ref-Level	40	0	20	40
2	Auto-Gain	ON	OFF	ON	ON
3	Ana-In	0	0	1	0
4	Carr-Mute	ON	OFF	ON	ON
5	Clock Out	ON	OFF	ON	ON
6	AM-Gain	ON	OFF	ON	ON
7	Clip-Mode	0	0	2	0
8	SCART1VOL	79	0	127	79
9	SCART2VOL	79	0	127	79
10	SCART-Pr	27	0	127	27
11	I2S1-Pr	16	0	127	16
12	I2S2-Pr	16	0	127	16
13	FM Pr	27	0	127	27
14	BG Nic.Pr	53	0	127	53
15	L Nic.Pr	59	0	127	59
16	DK Nic Pr	53	0	127	53
17	I Nic Pr	97	0	127	97
18	Irl Nic Pr	97	0	127	97
19	AVC-Decay	2	0	8	2
20	SubW.Vol	-4	-127	0	-4
21	SubW.Freq	20	5	40	20
22	SubW.HPass	ON	OFF	ON	ON
23	Spat.Stre	127	0	-1	127
24	Spat.Coeff	0	0	8	0
25	Bass Offs	0	-3	3	0
26	Treble Offs	-1	-3	3	-1
27	Loudn.Offs	0	0	9	0
28	HP-VolOffs	-2	-5	5	-2
29	M-S Limit	30	-128	127	30
30	M-B Limit	-30	-128	127	-30
31	S-M Limit	12	-128	127	12
32	S-B Limit	-20	-128	127	-20
33	B-M Limit	-12	-128	127	-12
34	B-S Limit	20	-128	127	20
35	Err.Max	40	0	255	40
36	Err.Min	14	0	25	14
37	Vol.Offs	-4	-6	0	-4

Table.4-12

Special Adjustment

No	Descr	Min	Max	Data
1	RGB Level	0	7	0
2	RGB Gain	0	31	8
3	RGB PAT Level	0	7	0
4	RGB PAT Gain	0	31	17
5	RGB H-Position	-10	10	1
6	Extra FW	0	255	255
7	EPG ChksCheck	OFF	ON	ON
8	Slicer High	OFF	ON	ON
9	FCW Wide	OFF	ON	OFF
10	High PLL	OFF	ON	OFF
11	Panic Offset	0	2	2
12	Wide Mute	OFF	ON	OFF
13	NTSC AUTO YC	OFF	ON	OFF
14	AVShp reduct	OFF	ON	OFF

Table.4-13

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4-3. TEST MODE 2:

Is available by pressing the ‘TEST’ button twice, OSD ‘TT’ appears. The functions described below are available by selecting the two numbers. To release the ‘Test mode 2’, press 0, 10, 20 ... twice or switch the TV set into Stand-by mode. Pressing the two Local Control buttons (+ and -) during power ON will also switch into ‘TT’ mode.
In ‘TT’ mode, it is possible to remove the Menu from the screen by pressing the Speaker Off button once. Pressing the Speaker OFF button a second time will cause the Menu to reappear. The function is kept even when the menu is not displayed on screen !!.

00	Switch back to normal mode - 'TT' mode off
01	Set picture maximum
02	Set picture minimum
03	Set speaker/headphone Volume to 30%
04	Set speaker/headphone Volume to 50%
05	Set speaker/headphone Volume to 65%
06	Set speaker/headphone Volume to 80%
07	Ageing mode
08	Shipping Condition
09	Language Reset
10	No function
11	Sub picture adjustment
12	Sub colour adjustment
13	Display software version and TV set configeration
14	Production Info Display
15	Picture Rotation
16	Picture level 50%
17	Audio mute on
18	No function
19	Sub brightness adjustment
20	No function
21	Destination A includes text settings, display TV status
22	Destination L includes text settings, display TV status
23	Destination E includes text settings, display TV status
24	Destination U includes text settings, display TV status
25	Destination D includes text settings, display TV status
26	Destination B includes text settings, display TV status
27	Destination K includes text settings, display TV status
28	Destination R includes text settings, display TV status
30	No function
31	Geometry Adjustment 1
32	Geometry Adjustment 2
33	Error monitor
34	No function
35	CRT 4:3 <> 16:9 ; Display TV status
36	Line 23 detection switch
37	Velocity Modulation (VM) test
38	No function
39	No function
40	No function

41	Screen mode check
42	Re-initialise geometry
43	No function
44	No function
45	No function
46	Reserved for dealer commander
47	Re-initialise NVM
48	Set NVM as non virgin
49	Set NVM as virgin
50	No function
51	Set Dolby volume to 90%
52	Dolby on left speaker only
53	Dolby on right speaker only
54	Dolby on left centre only
55	Dolby on surround speaker only
56 - 59	No function
60	No function
61	Service mode
62	Production mode
65	Reset error codes
68	Ignore error on
69	Ignore errors off
70	No function
71 - 72	No function
73	Clear programs
74 - 79	No function
80	No function
81	PAP H adjustment left image
82	PAP H adjustment right image
83 - 86	No function
87	Personal ID reset
88	Parental Lock off
89	No function
90	No function

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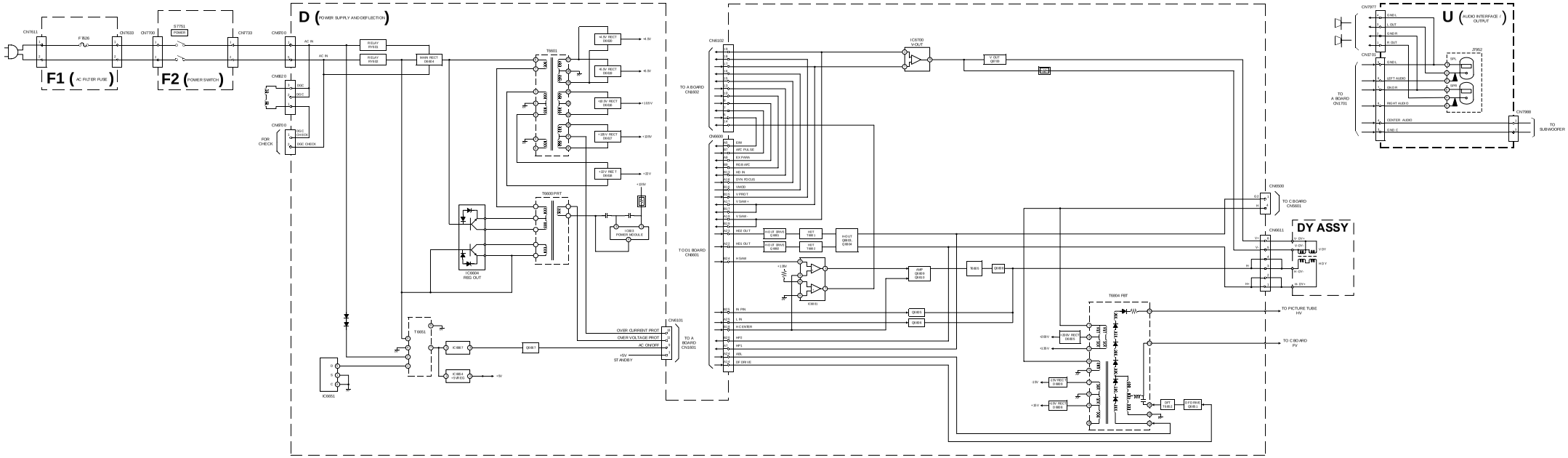
5-1. BLOCK DIAGRAMS (1)


F1 (AC FILTER FUSE)
F2 (POWER SWITCH)
D (TO WBR SUPPLY AND DEFLECTION)
U (AUDIO INTERFACE / OUTPUT)
DY ASSY
TO A BOARD CN1602
TO D1 BOARD CN6601
TO C BOARD CN6501
TO PICTURE TUBE HV
TO C BOARD PV
TO A BOARD CN1701
TO SUBWOOFER
OVER CURRENT PROT
OVER VOLTAGE PROT
AC ON/OFF
+5V STANDBY

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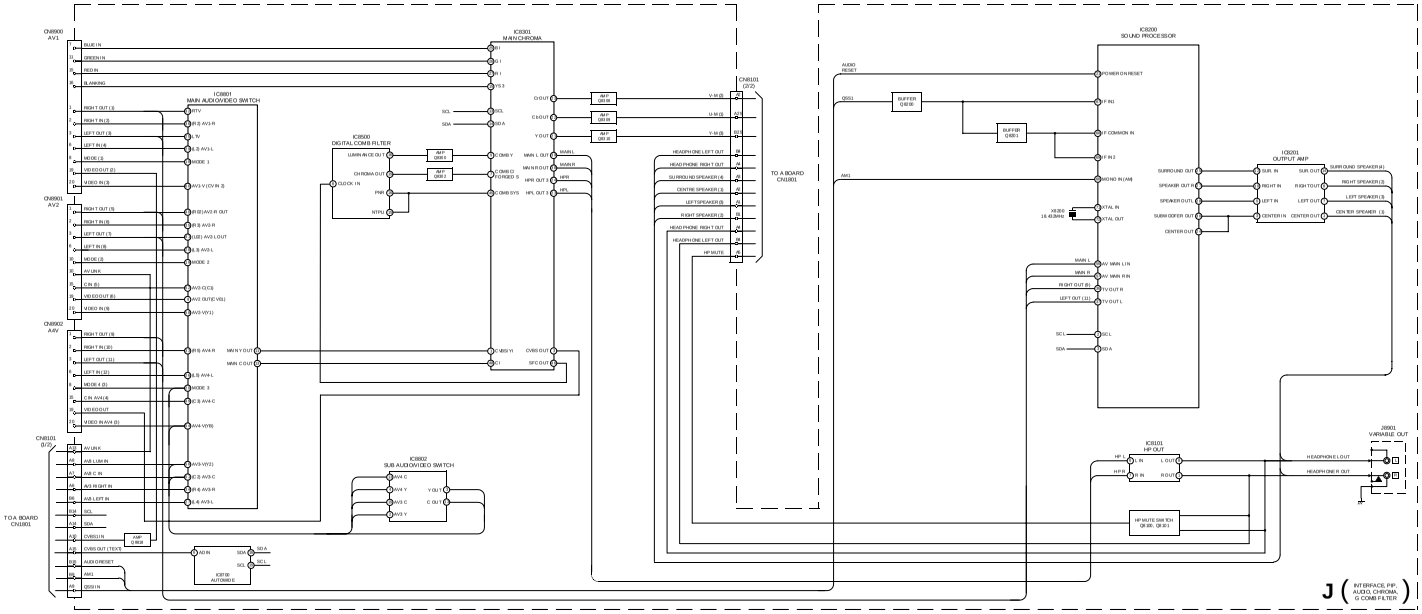
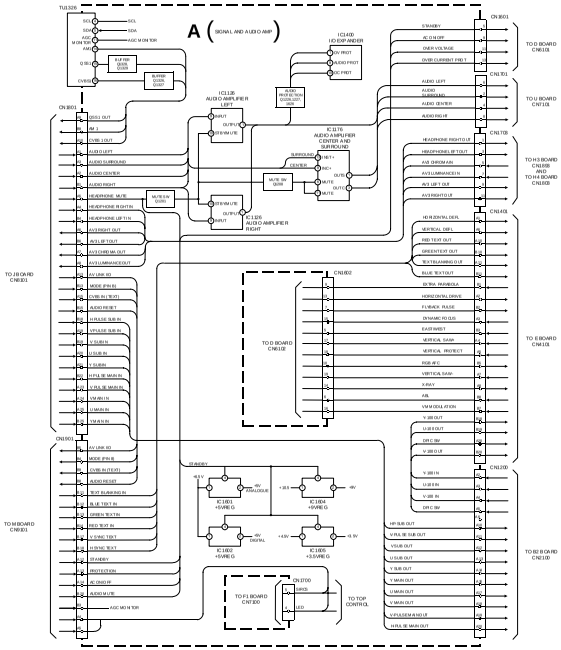
5-1. BLOCK DIAGRAMS (2)





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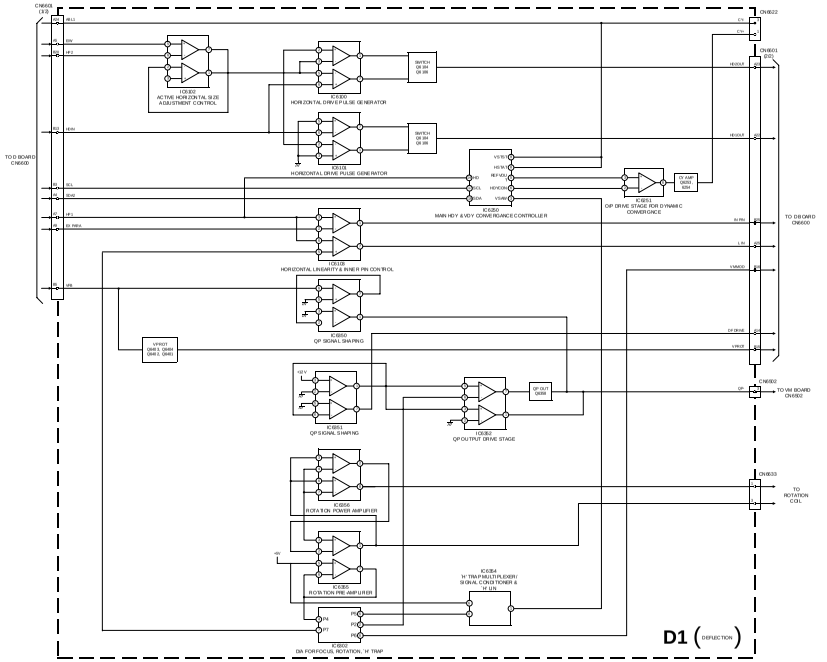
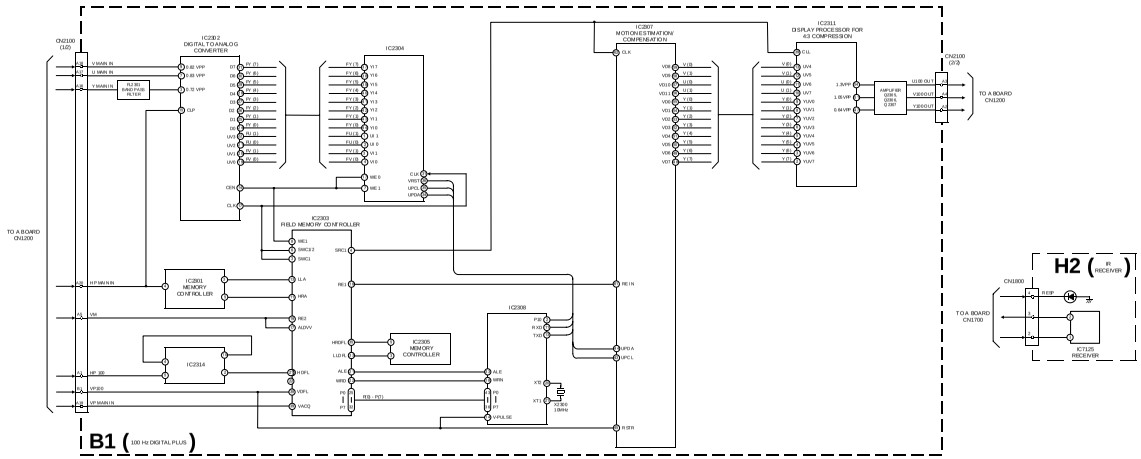
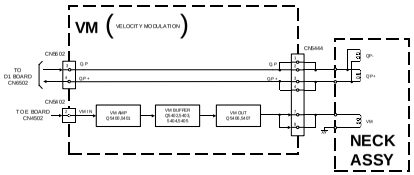
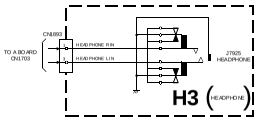
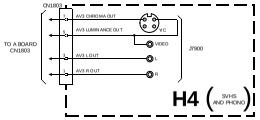
5-1. BLOCK DIAGRAMS (3)











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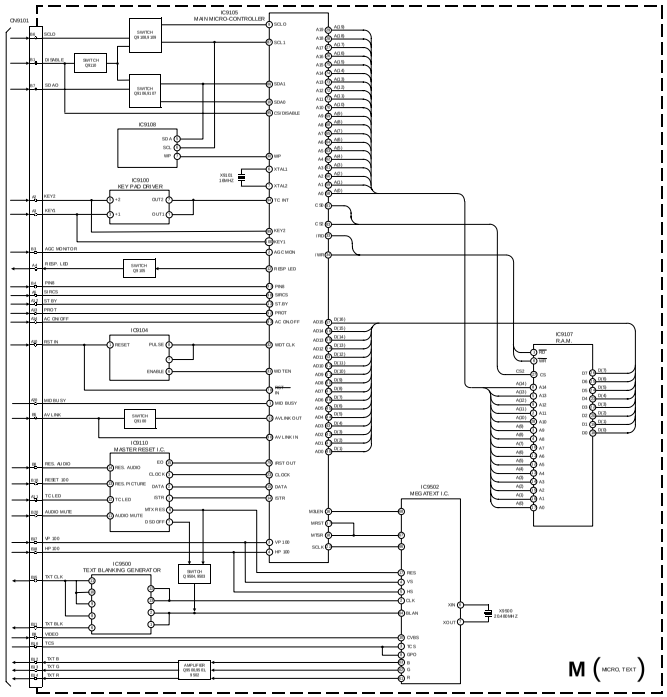
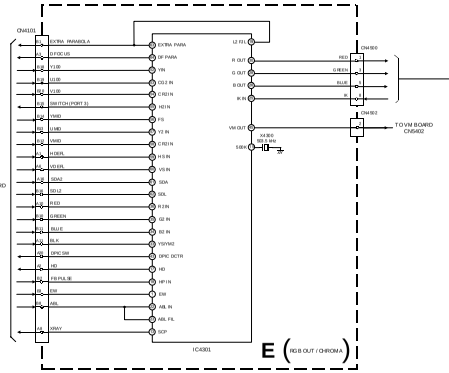
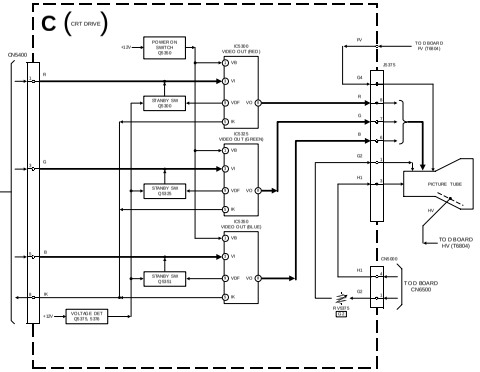
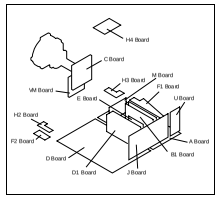
5-1. BLOCK DIAGRAMS (4)







5-2. CIRCUIT BOARD LOCATION



5-3. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

Note :

- All capacitors are in µF unless otherwise noted.
- pF : µµF 50WV or less are not indicated except for electrolytic types.
- Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch : 5mm
Electrical power rating : 1/4W

- Chip resistors are 1/10W
- All resistors are in ohms.
  k = 1000 ohms, M = 1000,000 ohms

- : nonflammable resistor.
- : fusible resistor.
- : internal component.
- : panel designation or adjustment for repair.

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- All voltages are in Volts.
- Readings are taken with a 10Mohm digital multimeter.
- Readings are taken with a color bar input signal.
- Voltage variations may be noted due to normal production tolerences.

- : B + bus.
- : B - bus.
- : RF signal path.
- : earth - ground.
- : earth - chassis.

Reference Information

RESISTOR	RN	METAL FILM
	RC	SOLID
	FRD	NON FLAMMABLE CARBON
	FUSE	NON FLAMMABLE FUSIBLE
	RS	NON FLAMMABLE METAL OXIDE
	RB	NON FLAMMABLE CEMENT
	RW	NON FLAMMABLE WIREWOUND
	※	ADJUSTMENT RESISTOR
COIL	LF-BL	MICRO INDUCTOR
CAPACITOR	TA	TANTALUM
	PS	STYROL
	PP	POLYPROPYLENE
	PT	MYLAR
	MPS	METALIZED POLYESTER
	MPP	METALIZED POLYPROPYLENE
	ALB	BIPOLAR
	ALT	HIGH TEMPERATURE
	ALR	HIGH RIPPLE

Note : The components identified by shading and marked ⚠ are critical for safety. Replace only with the part numbers specified in the parts list.

Note : Les composants identifiés par une trame et par une marque ⚠ sont d'une importance critique pour la sécurité. Ne les remplacer que par des pièces de numéro spécifié.

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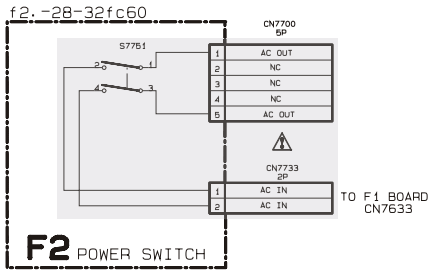
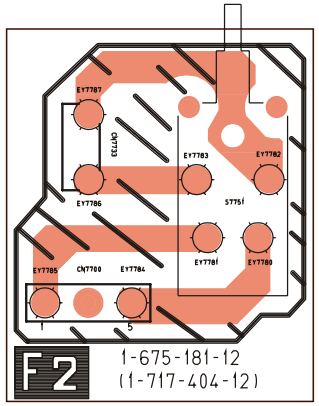
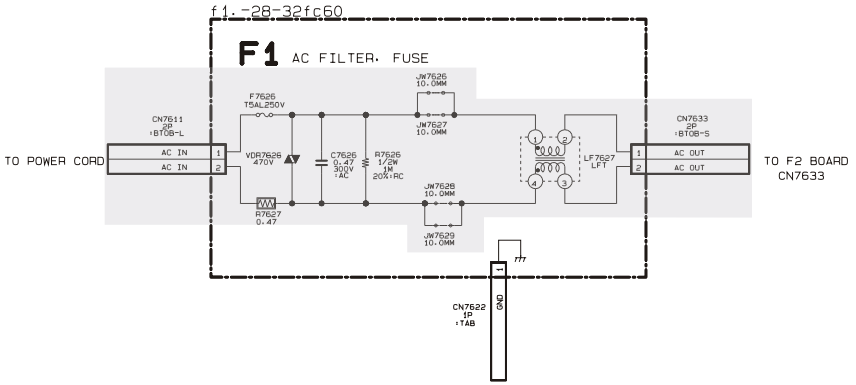
F2 [POWER SWITCH]



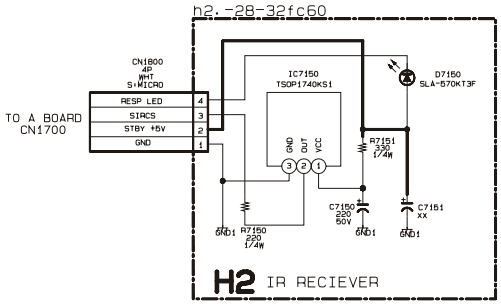
F2 [PRINTED WIRING BOARD]



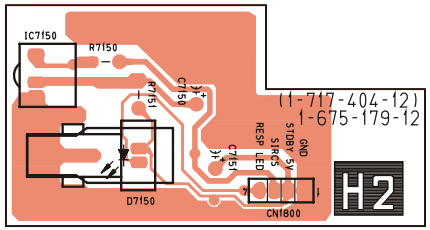
F1 [AC FILTER AND FUSE]



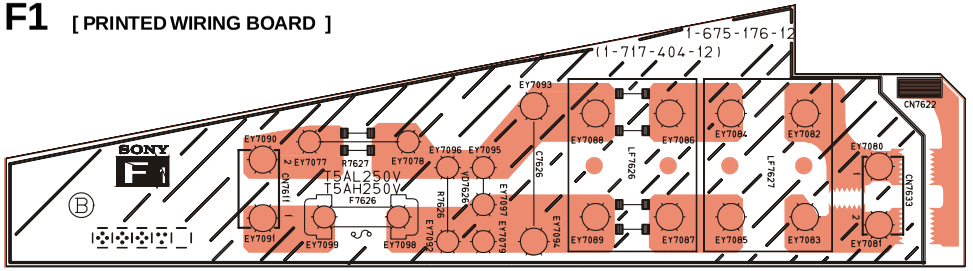
H2 [IR RECEIVER]



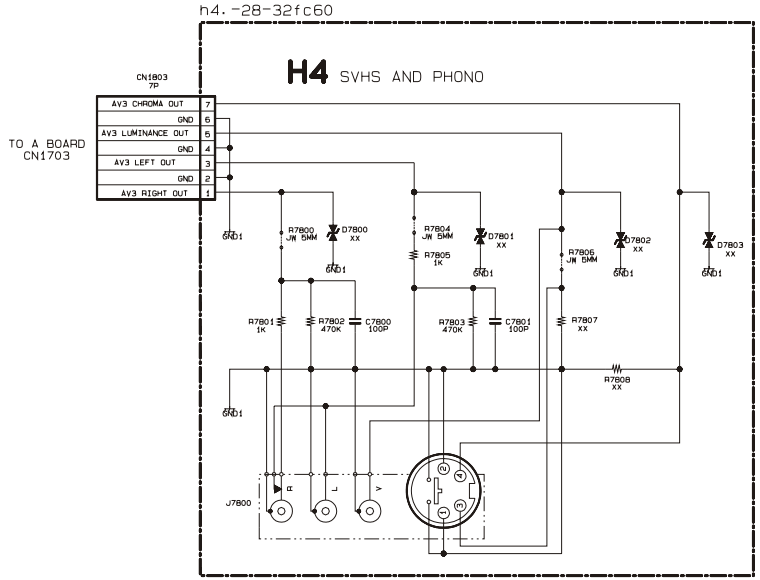
H2 [PRINTED WIRING BOARD]



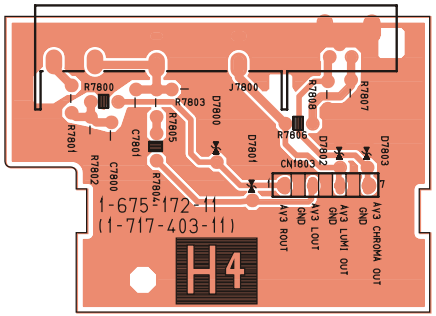
F1 [PRINTED WIRING BOARD]



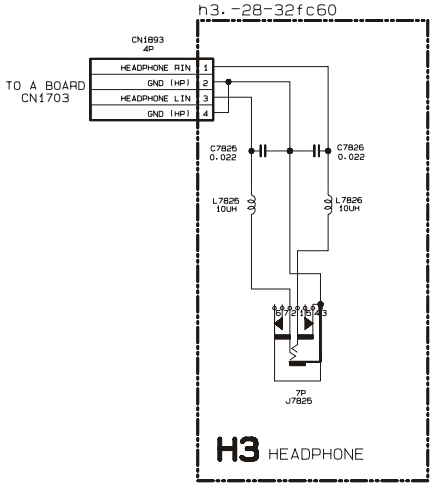
H4 [SVHS AND PHONO]



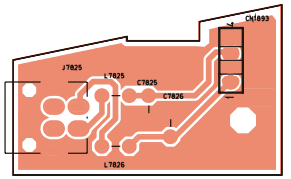
H4 [PRINTED WIRING BOARD]



H3 [HEADPHONE]



H3 [PRINTED WIRING BOARD]



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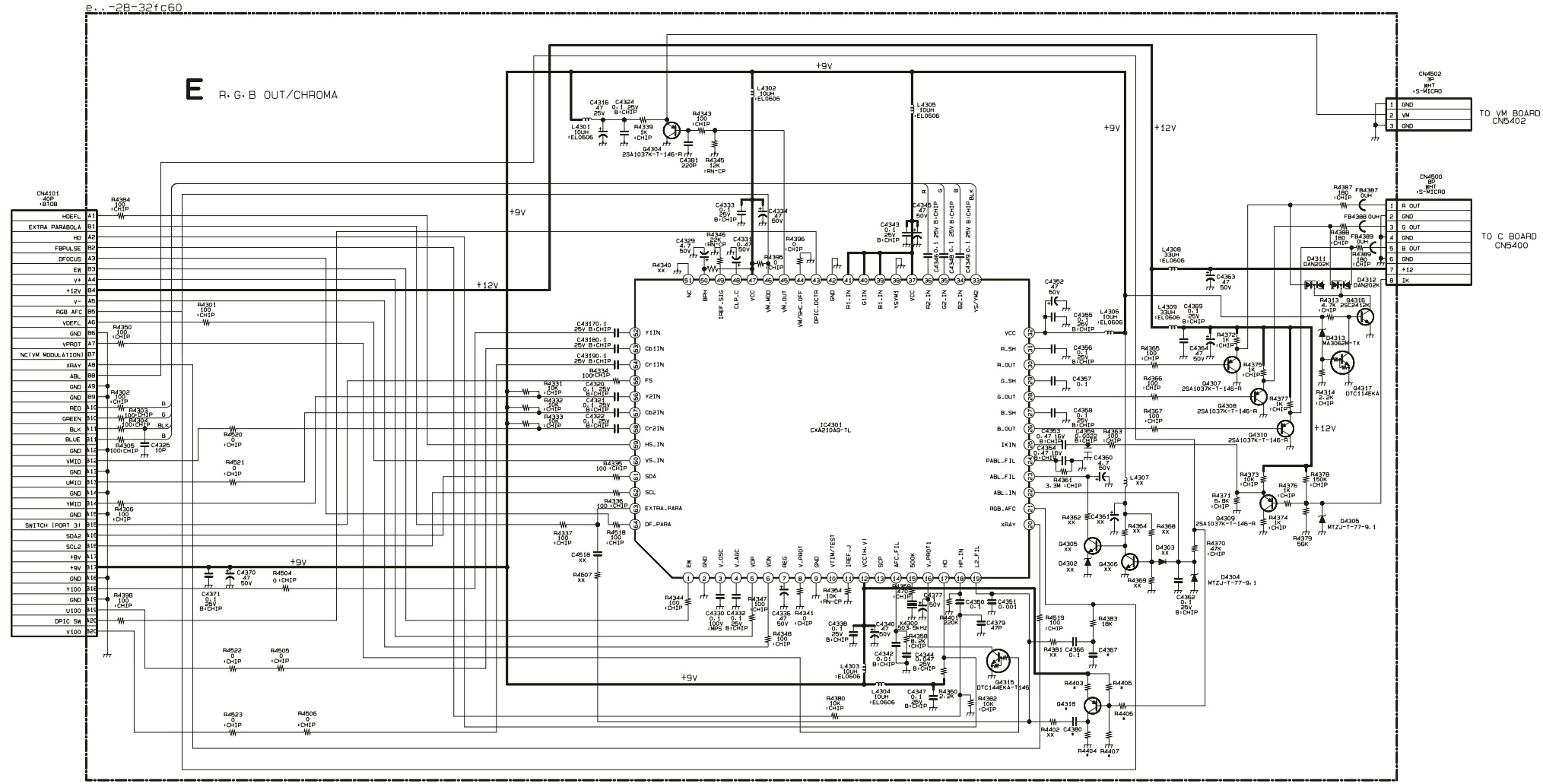
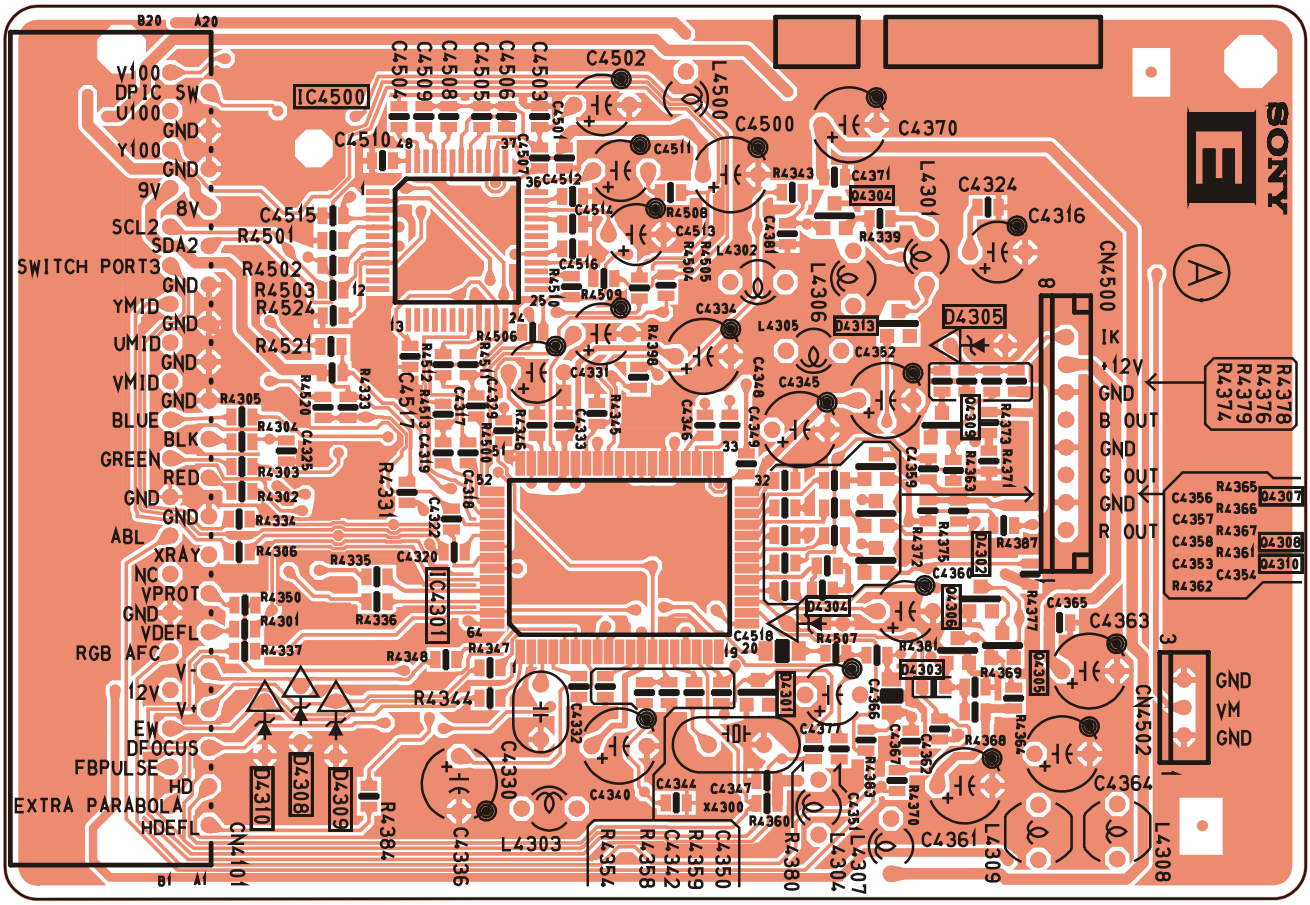
E [R, G, B OUT / CHROMA]



E [PRINTED WIRING BOARD]



E [BOARD COMPONENT DIFFERENCES]

Ref	28FC60	28FC60/Z	32FC60	32FC60/Z
C4367	0.047MF 25V	0.047MF 25V	0.047MF 50V	0.047MF 50V
C4380	-	-	0.0047MF	0.0047MF
Q4318	-	-	2SA1037AK-T-146-R	2SA1037AK-T-146-R
R4403	-	-	10K	10K
R4404	-	-	10K	10K
R4405	-	-	39K	39K
R4406	-	-	220K	220K
R4407	-	-	56K	56K

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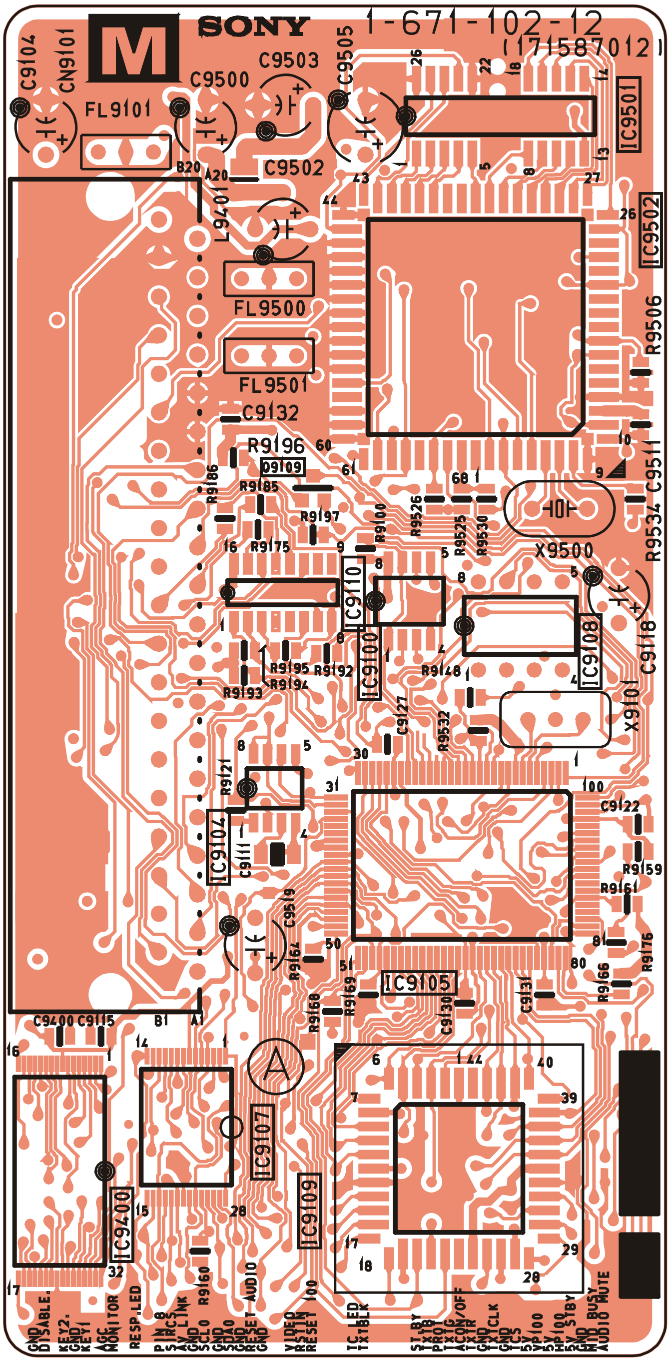
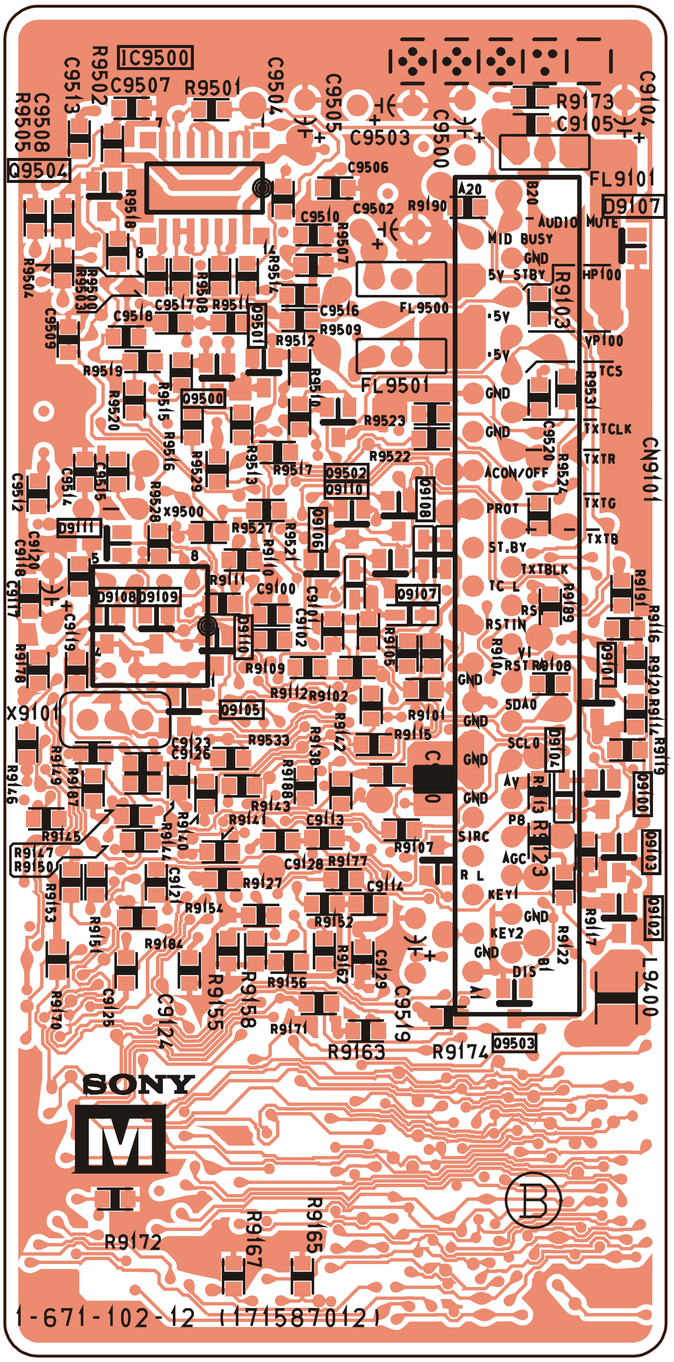
M [PRINTED WIRING BOARD]





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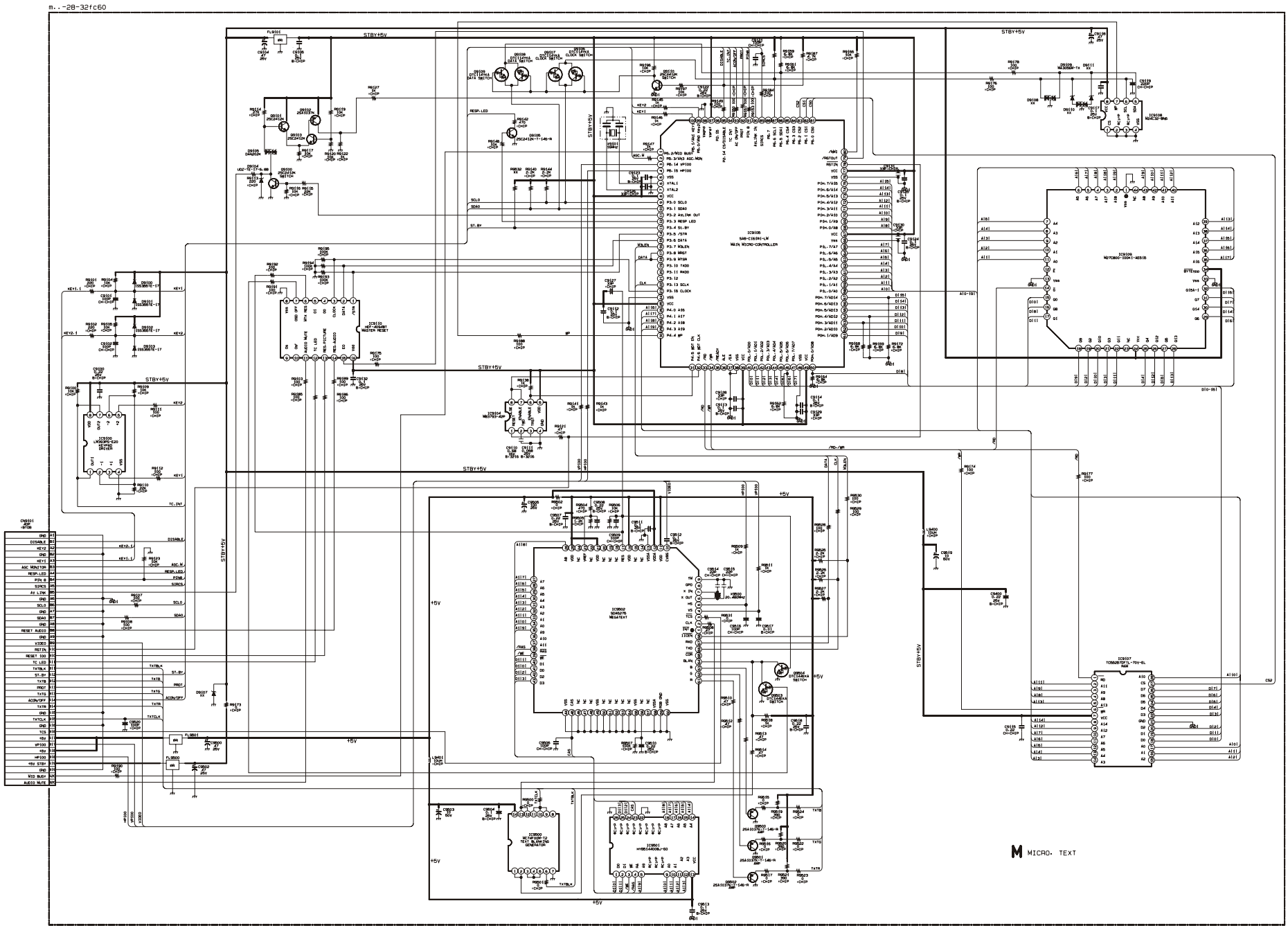
M [MICRO, TEXT]



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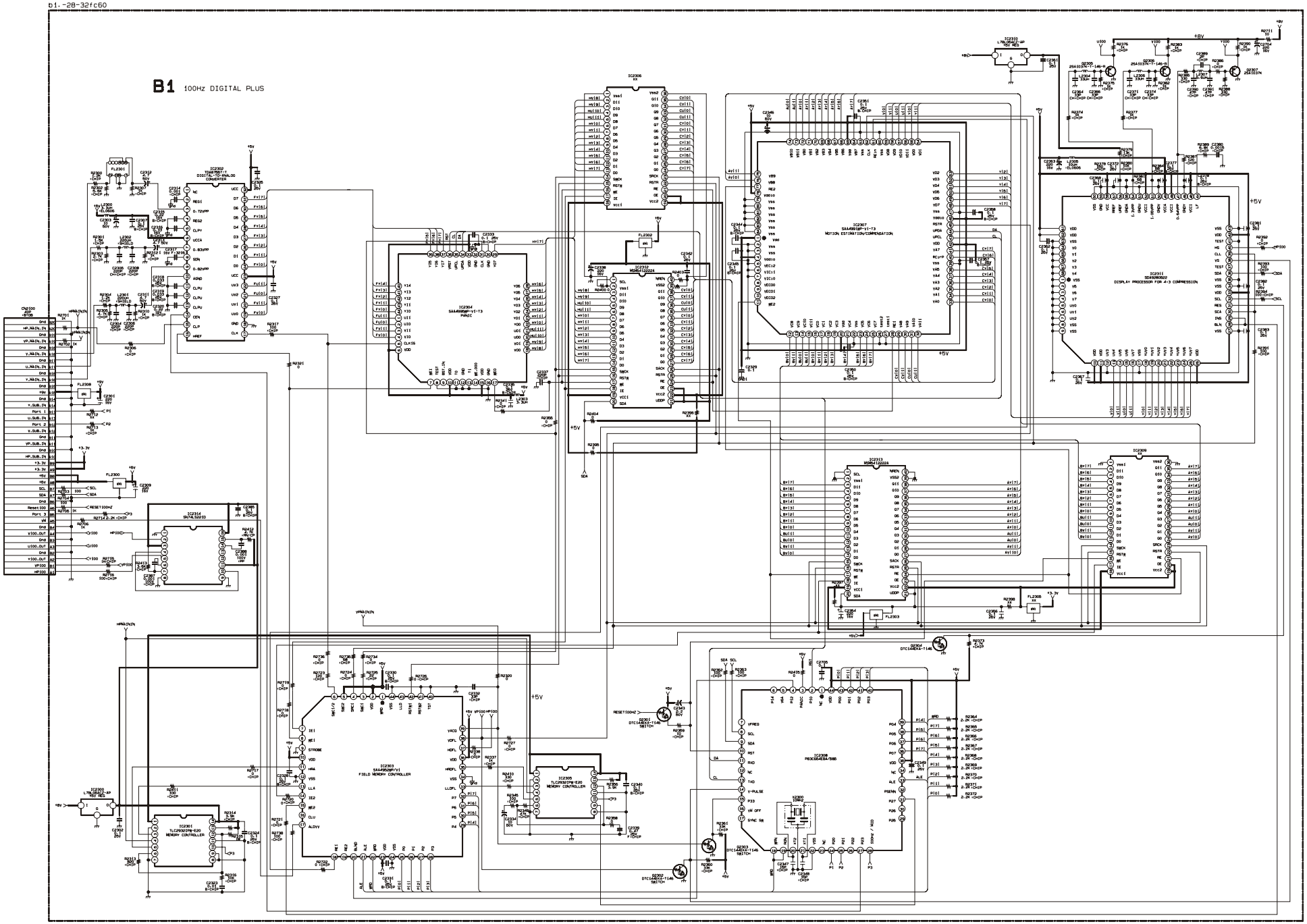
B1 [100Hz DIGITAL PLUS]

b1.-28-32fc60



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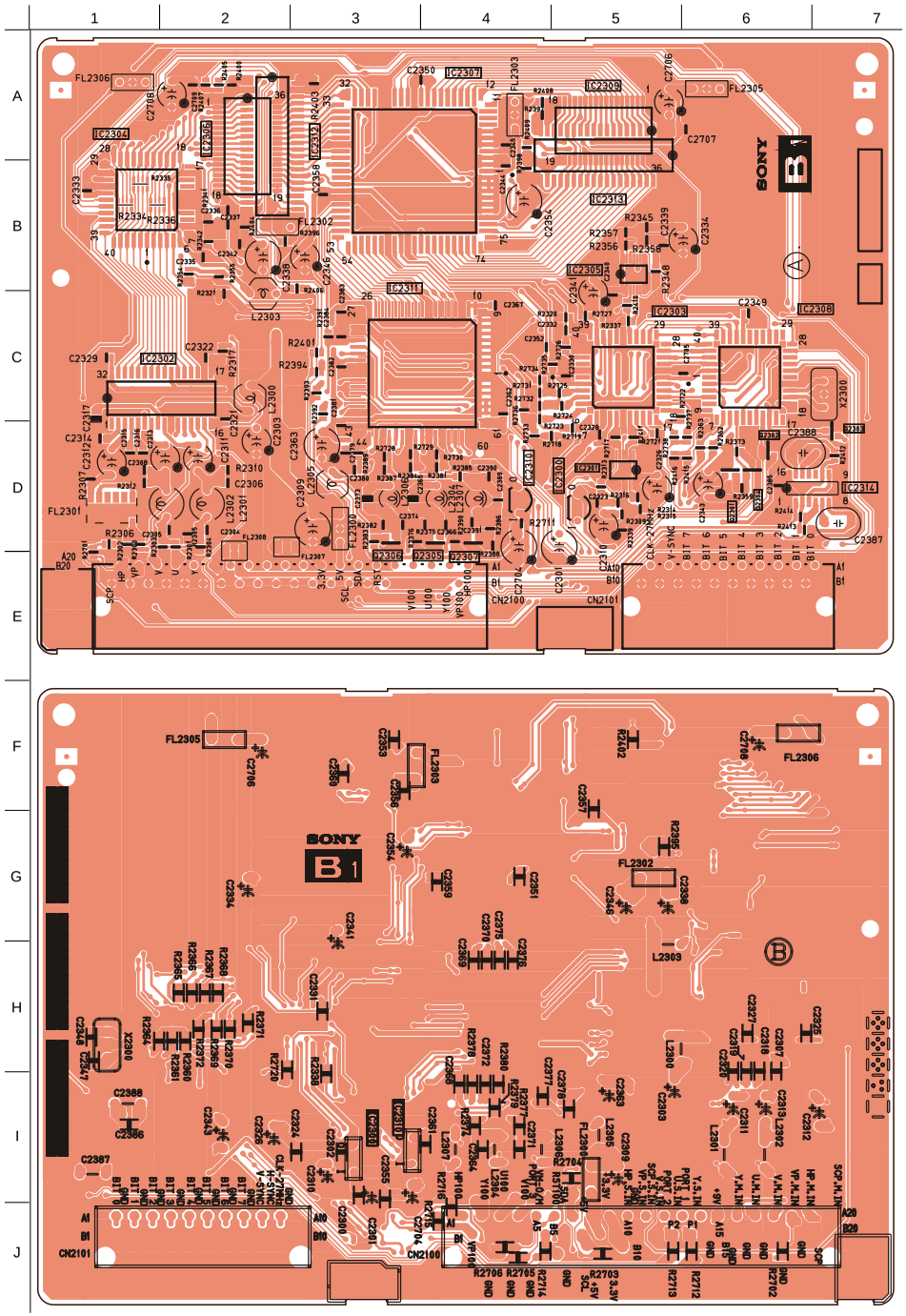
B1 [PRINTED WIRING BOARD]



IC		TRANSISTOR	
IC2300	E - 4	Q2301	D - 6
IC2301	D - 5	Q2302	F - 7
IC2302	C - 1	Q2303	F - 7
IC2303	C - 5	Q2304	D - 6
IC2304	A - 1	Q2305	E - 3
IC2305	B - 5	Q2306	E - 3
IC2307	A - 3	Q2307	E - 4
IC2308	C - 6		
IC2310	D - 7		
IC2311	C - 3		
IC2312	C - 9		
IC2313	B - 5		
IC2314	D - 6		

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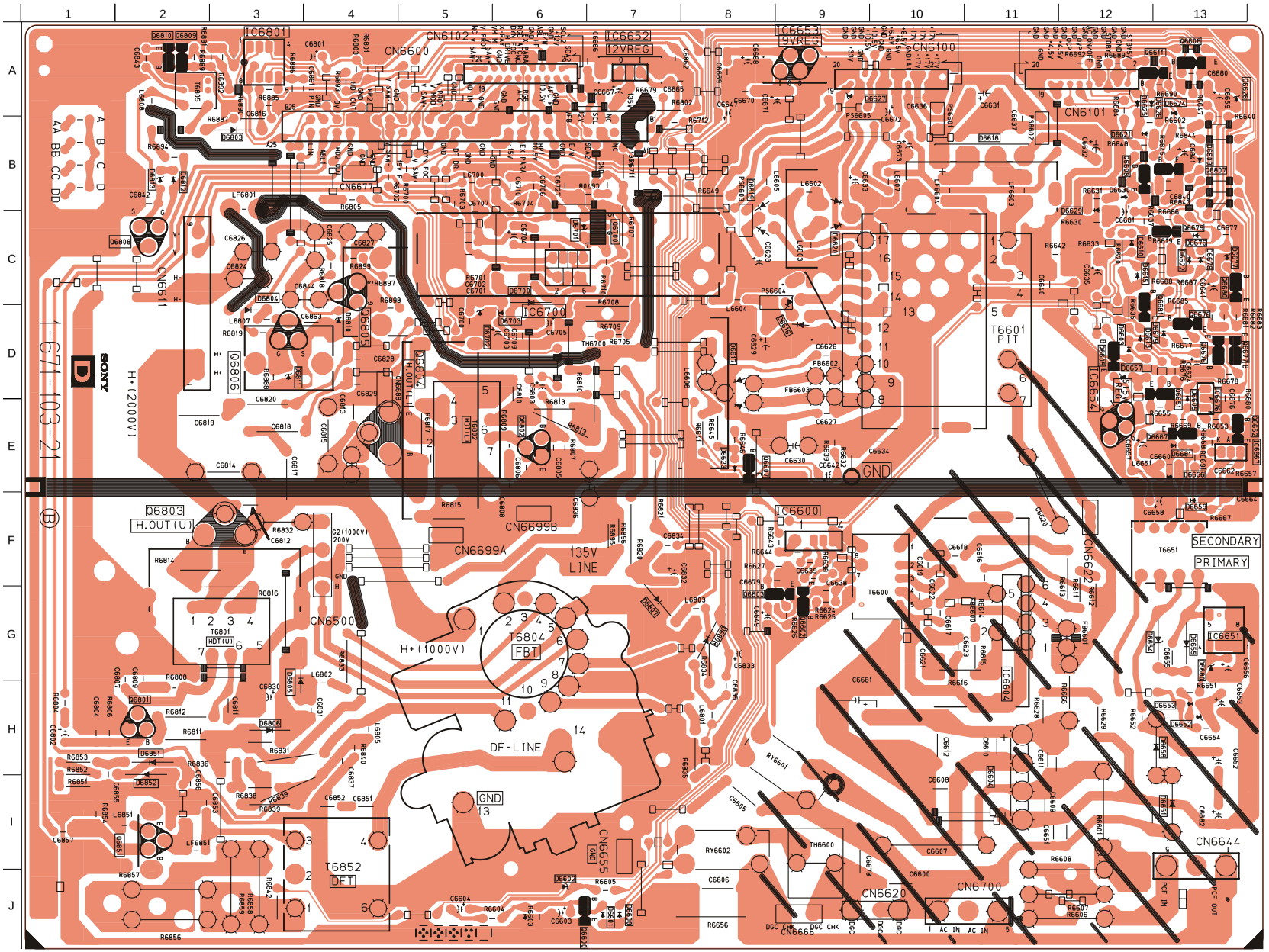
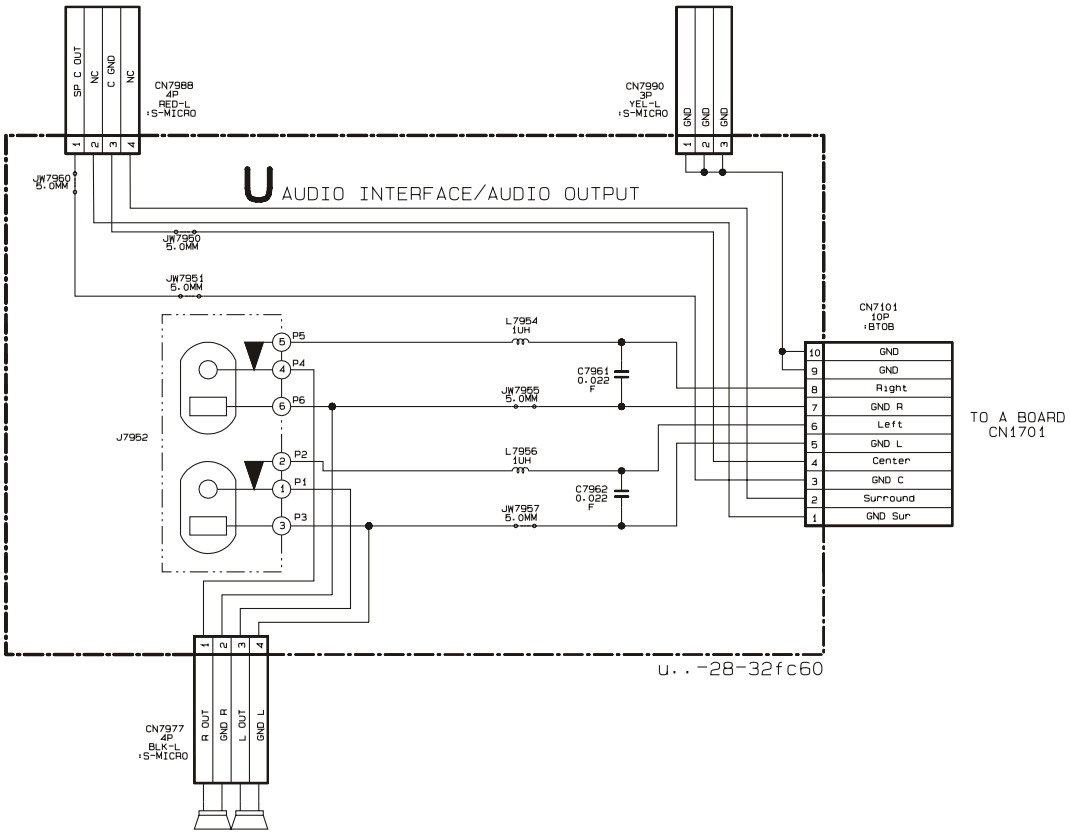
D [PRINTED WIRING BOARD]



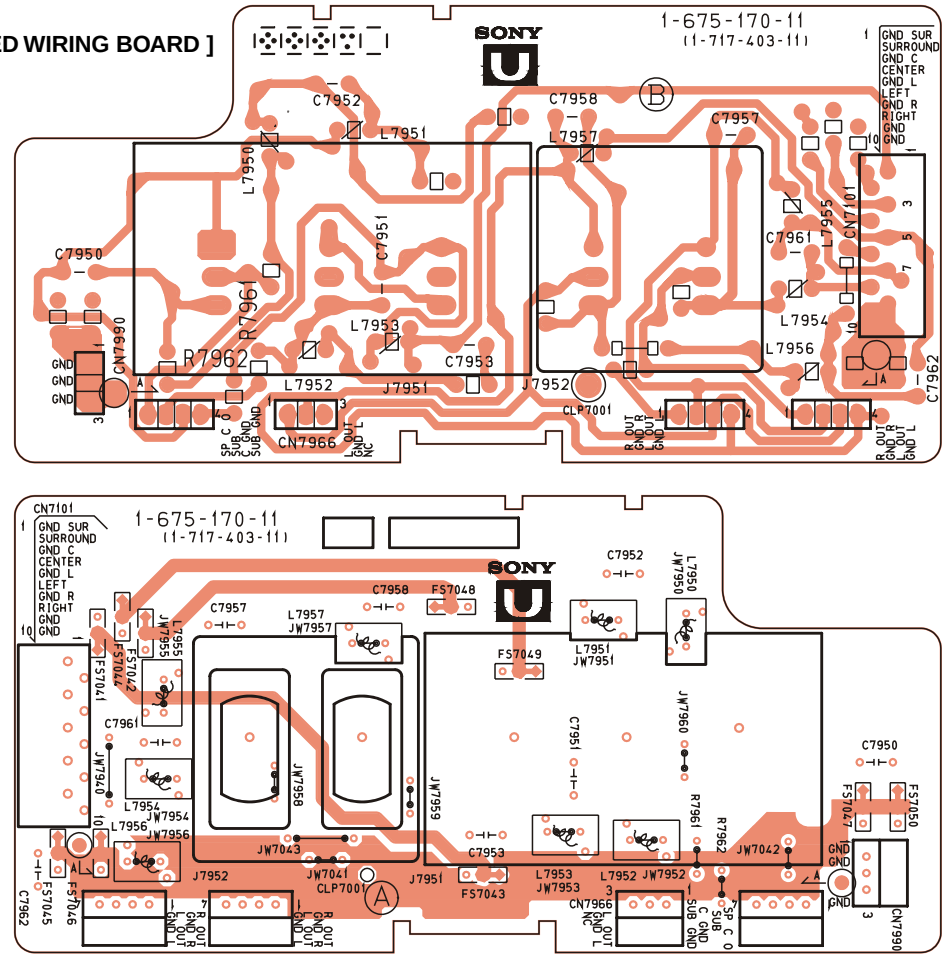
IC		D6613	D - 12
IC6600	F - 9	D6615	C - 12
IC6604	H - 11	D6616	D - 9
IC6651	G - 13	D6617	D - 8
IC6652	A - 7	D6618	B - 11
IC6653	A - 9	D6619	B - 8
IC6654	D - 12	D6621	B - 12
IC6667	E - 13	D6622	C - 13
IC6700	D - 6	D6623	E - 8
IC6801	A - 3	D6624	B - 13
TRANSISTOR		D6625	A - 12
Q6600	J - 6	D6626	A - 13
Q6602	G - 9	D6627	A - 10
Q6603	G - 8	D6628	A - 13
Q6605	D - 12	D6629	B - 12
Q6606	A - 13	D6630	B - 12
Q6607	E - 8	D6651	I - 13
Q6651	E - 13	D6652	H - 13
Q6652	E - 13	D6653	H - 13
Q6667	E - 13	D6654	G - 12
Q6676	D - 13	D6655	G - 13
Q6677	D - 13	D6556	E - 13
Q6678	D - 13	D6658	H - 13
Q6679	C - 13	D6659	F - 13
Q6680	C - 13	D6676	C - 13
Q6681	D - 13	D6677	C - 13
Q6700	C - 6	D6678	C - 13
Q6801	H - 2	D6679	D - 13
Q6802	E - 6	D6681	E - 13
Q6803	F - 2	D6700	C - 5
Q6804	D - 5	D6701	H - 2
Q6805	E - 13	D6803	B - 3
Q6806	D - 3	D6804	C - 3
Q6807	B - 13	D6805	G - 3
Q6809	A - 2	D6806	H - 3
Q6810	A - 2	D6807	G - 7
Q6851	I - 2	D6808	G - 8
DIODE		D6809	B - 13
D6600	J - 7	D6811	D - 3
D6601	J - 7	D6851	H - 2
D6602	J - 6	D6852	I - 2
D6603	D - 12		
D6604	I - 11		
D6605	D - 13		
D6610	C - 12		

NOTE:
Portions of the circuit marked as shown are high voltage areas. Use care to prevent electric shock during inspection or repair.

U [AUDIO INTERFACE / AUDIO OUTPUT]



U [PRINTED WIRING BOARD]



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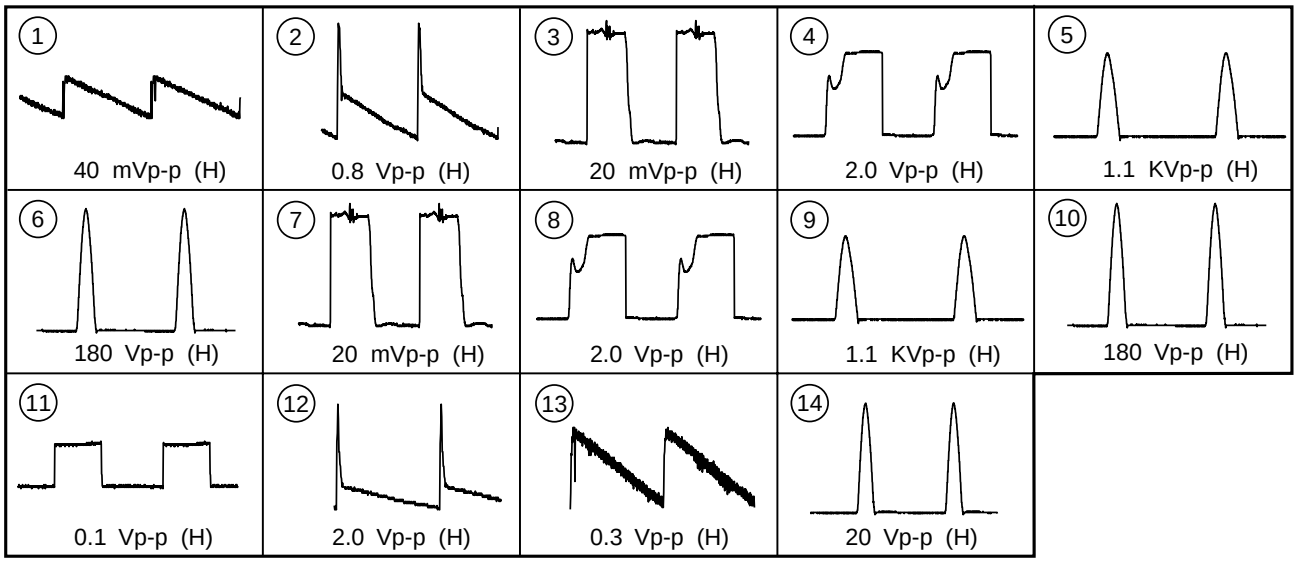
D [BOARD COMPONENT DIFFERENCES]

Ref	28FC60	28FC60/Z	32FC60	32FC60/Z
C6814	7500PF	7500PF	6800PF	6800PF
C6815	6800PF	6800PF	6200PF	6200PF
C6825	0.22MF	0.22MF	0.18MF	0.18MF
C6826	0.68MF	0.68MF	0.56MF	0.56MF
R6810	3.3K	3.3K	3.9K	3.9K
R6836	18K	18K	15K	15K
R6856	8.2K	8.2K	6.8K	6.8K
R6857	8.2K	8.2K	6.8K	6.8K
R6858	8.2K	8.2K	6.8K	6.8K
R6859	8.2K	8.2K	6.8K	6.8K
R6897	470K	470K	680K	680K

Waveforms D Board



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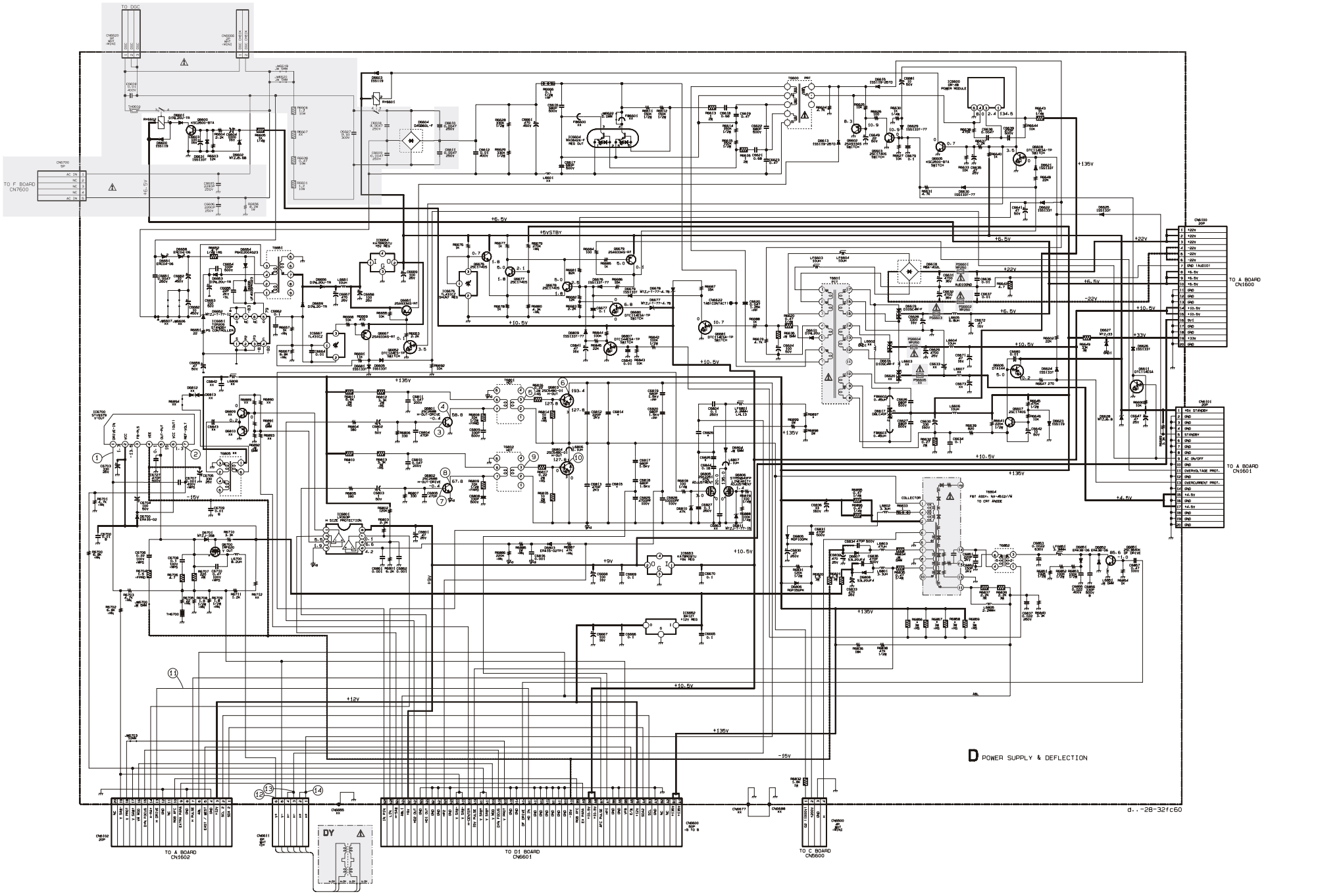
D [POWER, HORIZONTAL DEFLECTION, VERTICAL DEFLECTION]



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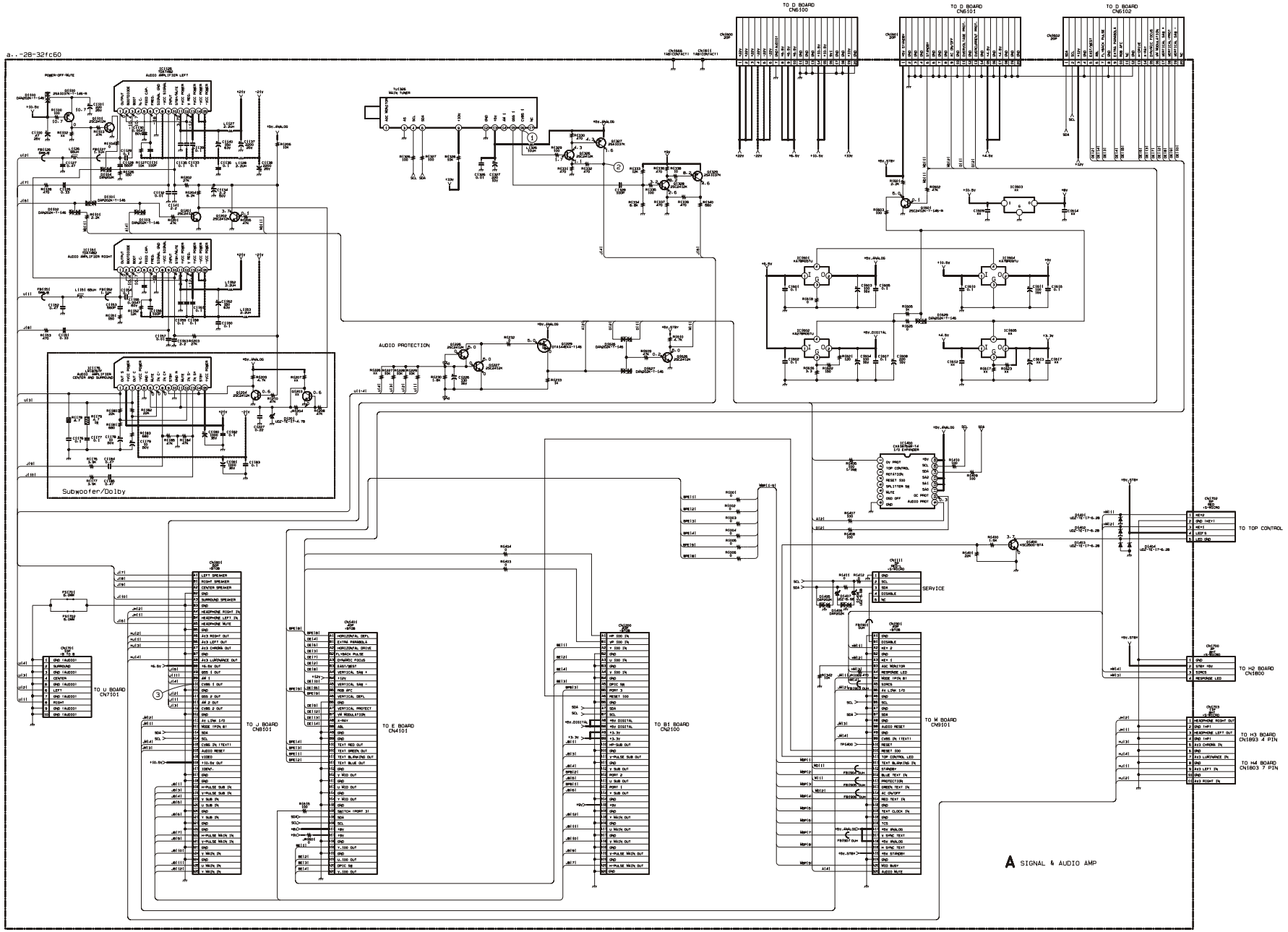
A [SIGNAL & AUDIO AMP]



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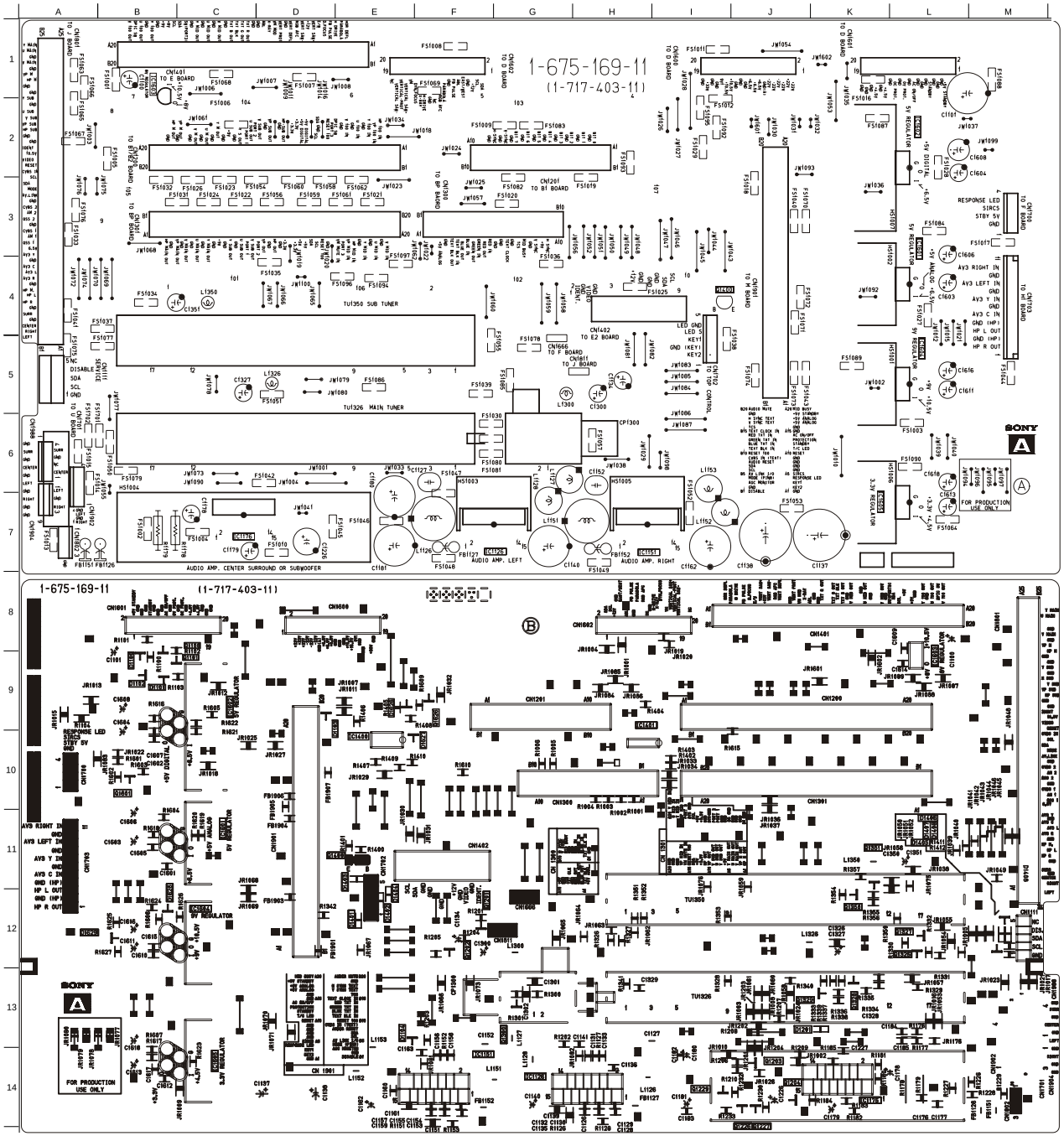
A [PRINTED WIRING BOARD]



A [BOARD SEMICONDUCTOR LOCATION TABLE]

IC		DIODE	
IC1126	F - 7	D1100	B - 8
IC1151	H - 7	D1101	B - 9
IC1176	C - 7	D1102	B - 9
IC1400	E - 9	D1103	D - 9
IC1601	L - 3	D1104	E - 13
IC1602	L - 2	D1201	J - 13
IC1604	L - 4	D1402	E - 12
TRANSISTOR		D1403	E - 11
Q1100	C - 8	D1404	E - 11
Q1101	C - 8	D1405	L - 11
Q1201	F - 12	D1406	L - 11
Q1202	F - 12	D1407	L - 11
Q1204	J - 14	D1408	L - 11
Q1226	J - 14	D1626	E - 9
Q1227	J - 14	D1627	F - 9
Q1229	I - 14	D1629	B - 12
Q1326	L - 12		
Q1327	L - 12		
Q1328	K - 13		
Q1329	J - 13		
Q1400	E - 11		
Q1601	B - 10		
Q1626	F - 9		

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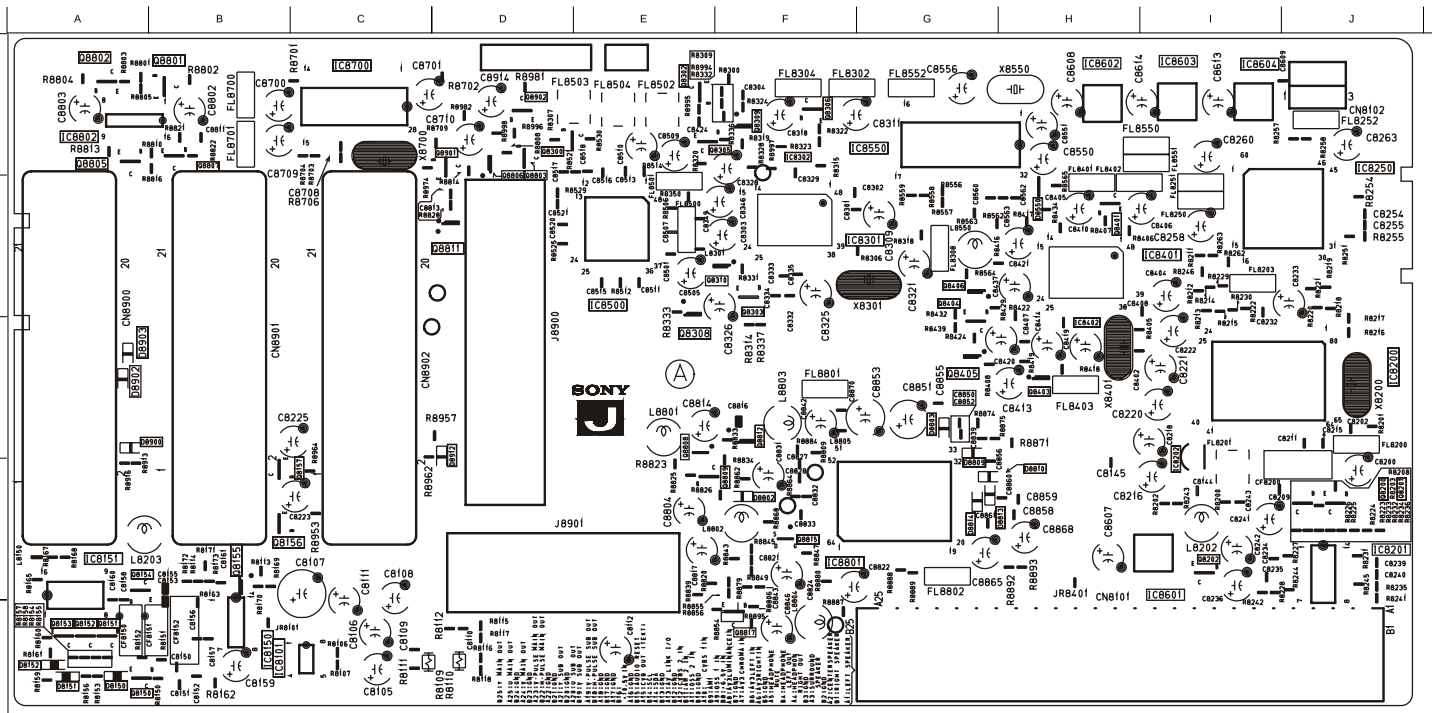
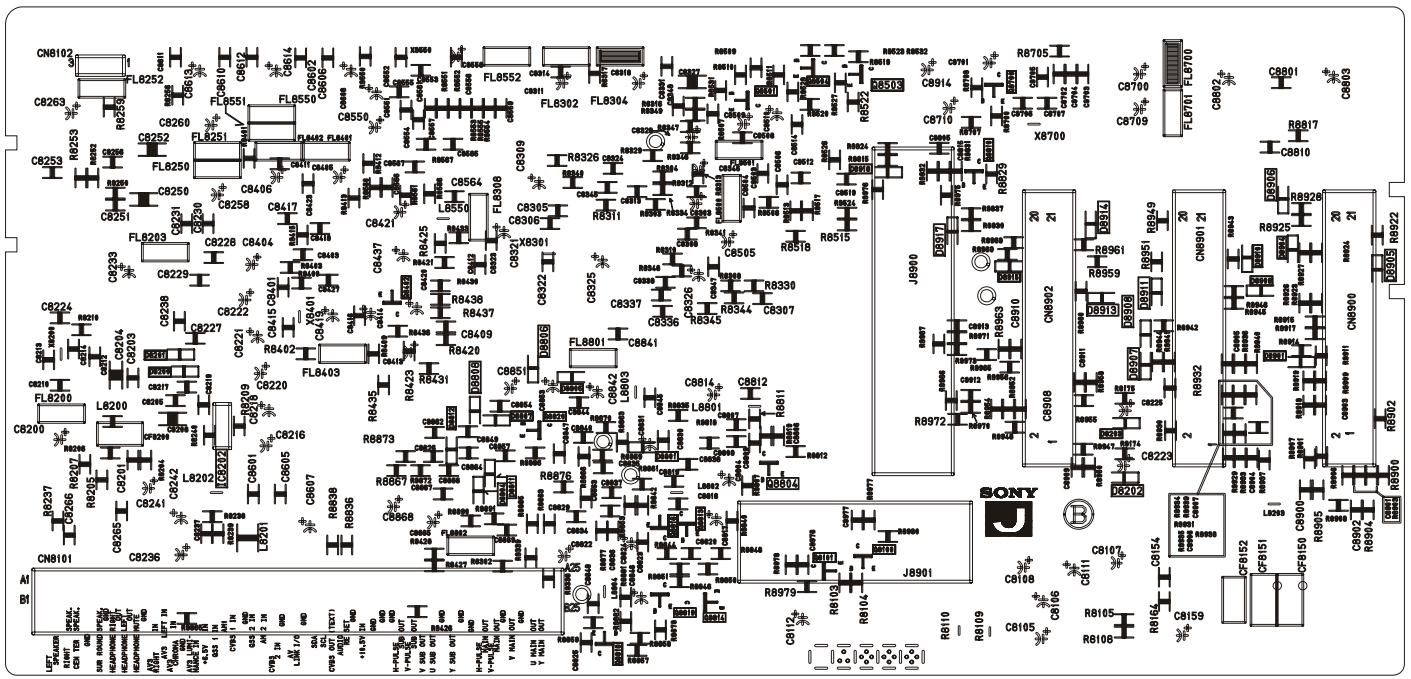
J [PRINTED WIRING BOARD]





J [BOARD SEMICONDUCTOR LOCATION TABLE]

IC		DIODE	
IC8101	B - 5	D8801	F - 4
IC8151	A - 4	D8802	F - 4
IC8201	J - 4	D8803	G - 3
IC8202	I - 3	D8804	F - 6
IC8550	G - 1	D8805	D - 8
IC8601	I - 4	D8806	D - 8
IC8602	H - 1	D8807	D - 8
IC8603	I - 1	D8808	D - 8
IC8604	I - 1	D8809	G - 3
TRANSISTOR		D8810	G - 4
Q8200	J - 3	D8811	D - 9
Q8201	J - 3	D8812	D - 8
Q8202	I - 4	D8813	D - 8
Q8303	F - 2	D8814	D - 8
Q8305	E - 1	D8900	I - 7
Q8308	E - 3	D8901	J - 8
Q8309	F - 1	D8904	J - 7
Q8310	E - 2	D8905	J - 7
Q8401	H - 2	D8906	I - 7
Q8403	H - 3	D8907	I - 8
Q8404	G - 2	D8908	I - 8
Q8405	G - 3	D8909	I - 7
Q8406	G - 2	D8910	I - 7
Q8901	D - 1	D8911	I - 7
		D8912	H - 7
		D8913	H - 7
		D8914	H - 7
		D8915	H - 7

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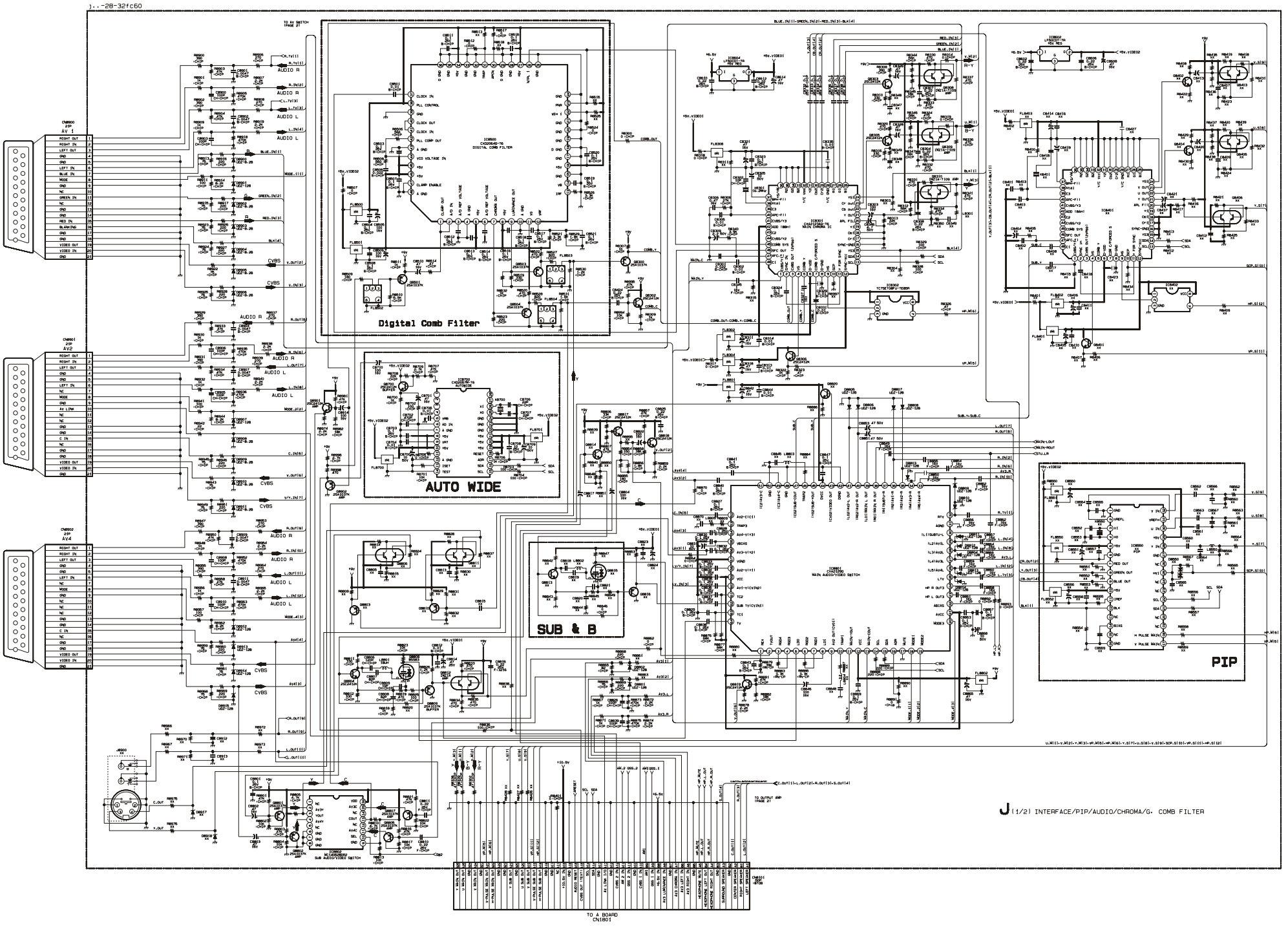
J [1/2 INTERFACE/AUDIO/CHROMA/COMB FILTER]



J (1/2) INTERFACE/PIP/AUDIO/CHROMA/G. COMB FILTER

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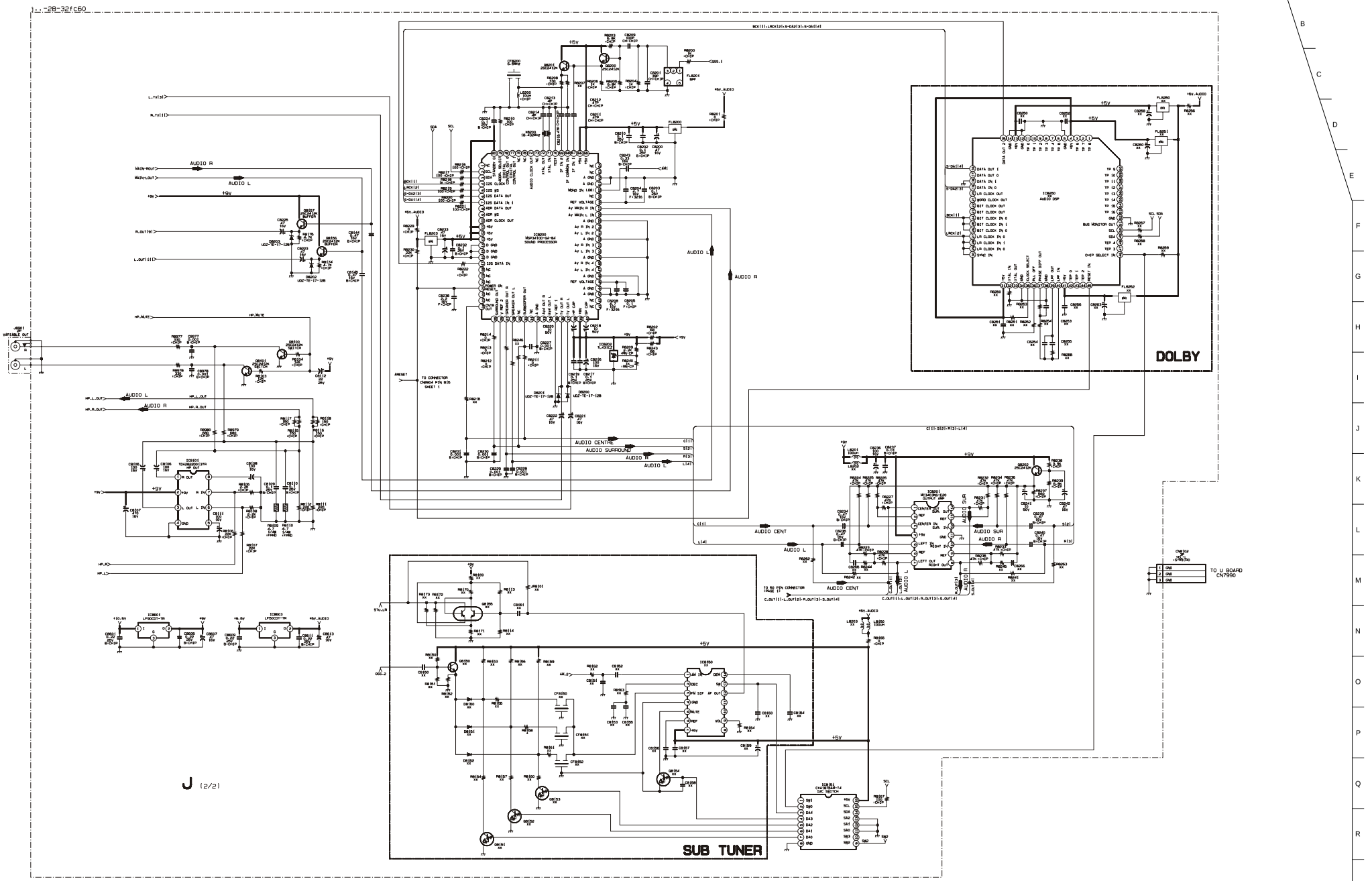
J [2/2 INTERFACE/AUDIO/CHROMA/COMB FILTER]



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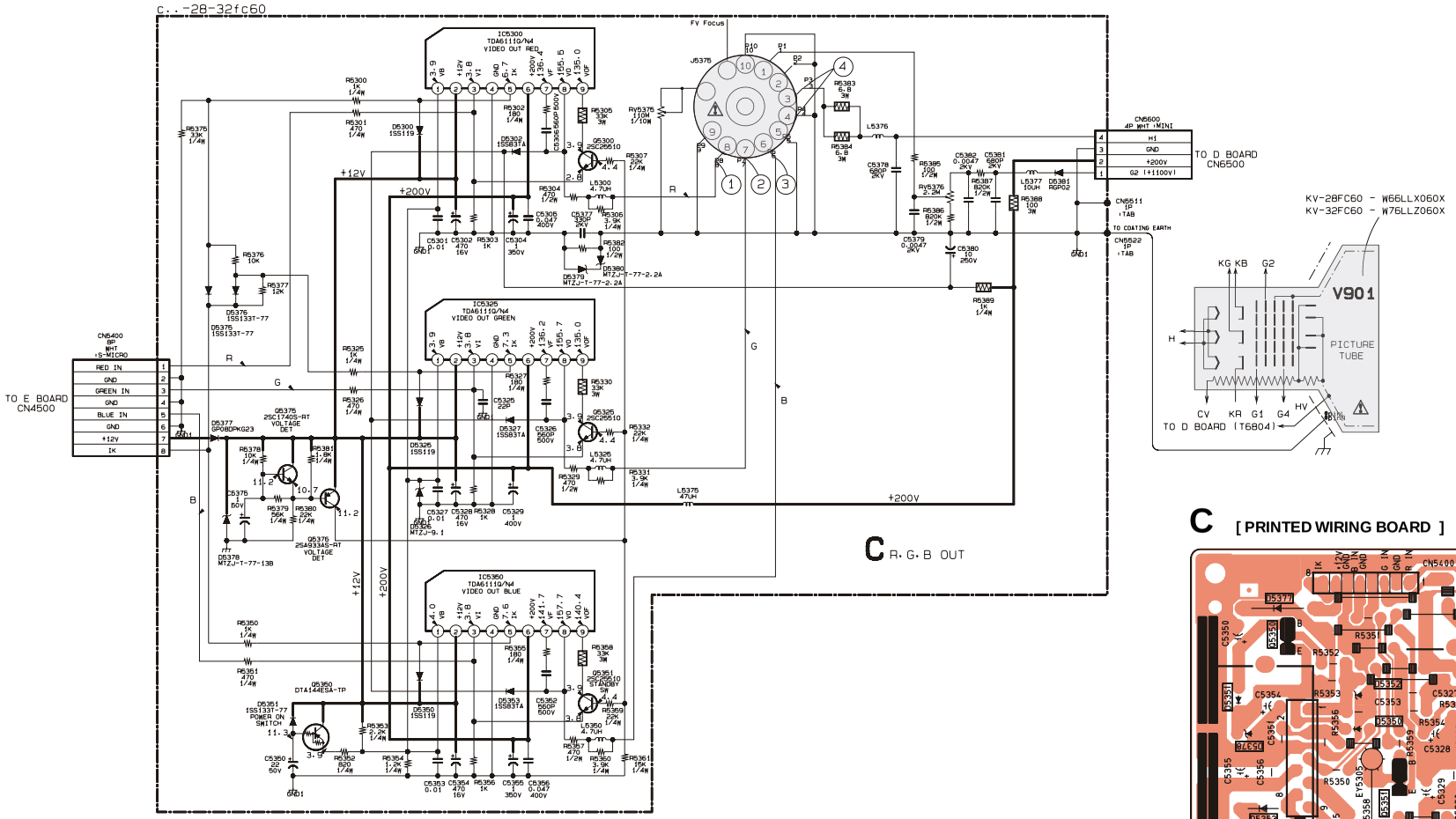
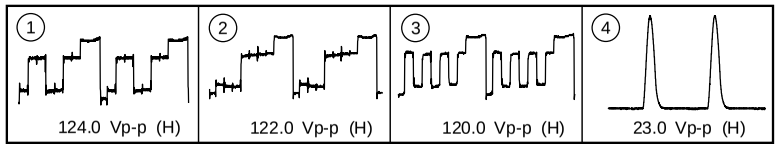
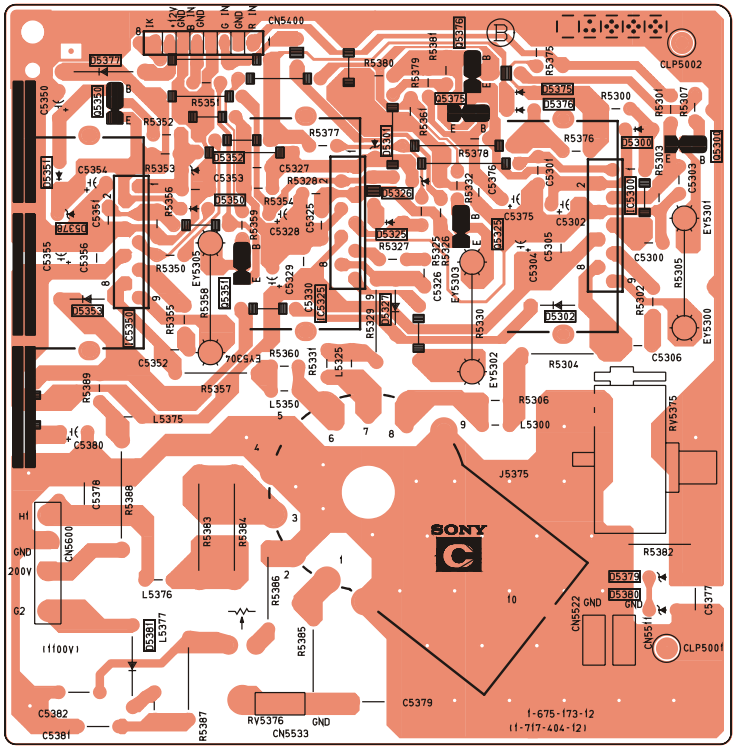
C [R, G, B OUT]



Waveforms C Board



C [PRINTED WIRING BOARD]



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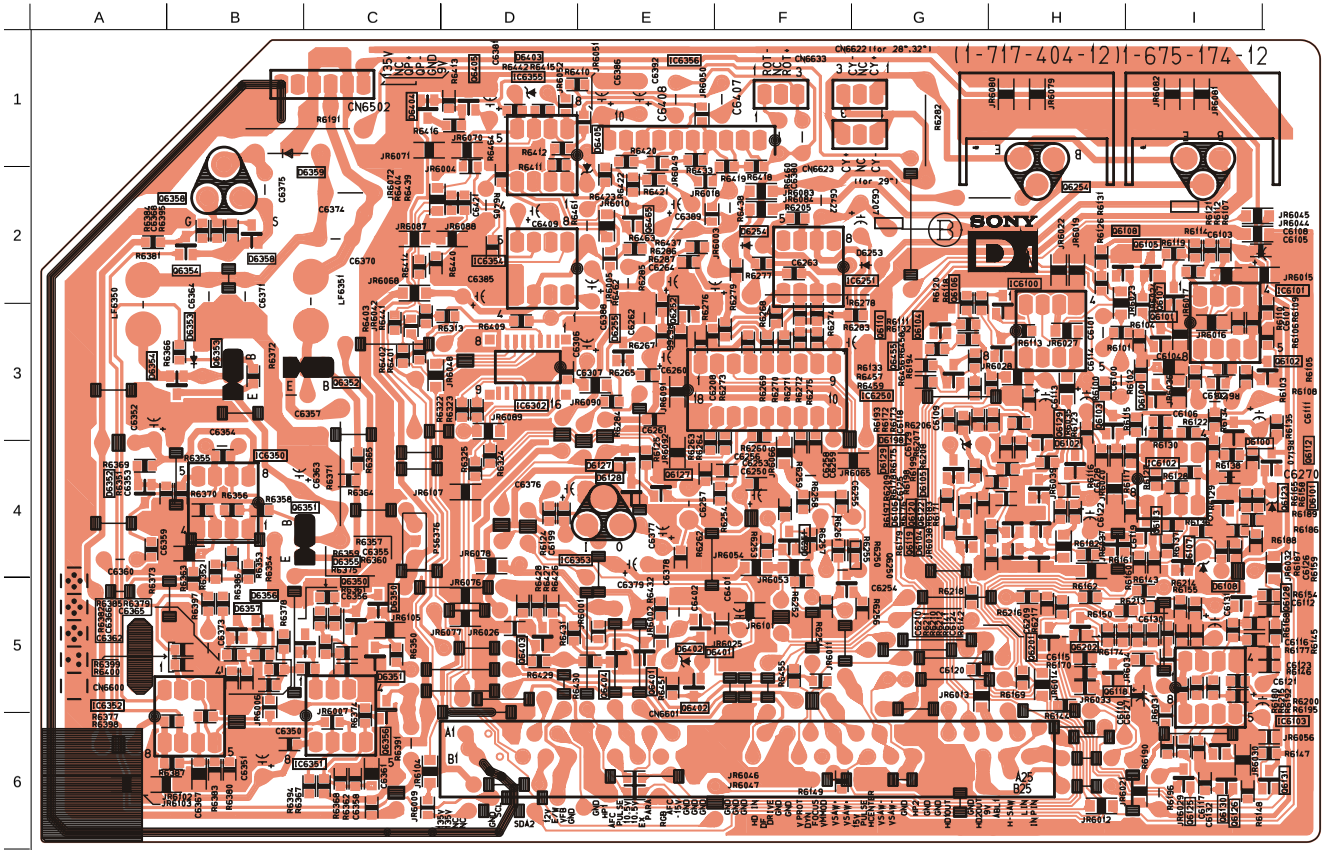
D1 [PRINTED WIRING BOARD]



IC		Q6350	C - 4
IC6100	H - 3	Q6351	B - 4
IC6101	I - 3	Q6352	C - 3
IC6102	I - 4	Q6353	B - 3
IC6103	I - 5	Q6354	A - 3
IC6250	F - 3	Q6356	C - 6
IC6251	F - 2	Q6258	A - 2
IC6302	D - 3	Q6401	E - 5
IC6350	B - 4	Q6402	E - 5
IC6351	C - 5	Q6403	D - 5
IC6352	B - 5	Q6404	E - 5
IC6353	E - 4	Q6405	D - 1
IC6354	D - 2	Q6455	G - 3
IC6355	D - 1	Q6456	E - 2
IC6356	E - 1	**DIODE**	
TRANSISTOR		D6102	H - 3
Q6100	I - 3	D6104	H - 4
Q6101	I - 2	D6105	H - 4
Q6102	I - 3	D6107	I - 4
Q6103	H - 3	D6108	I - 4
Q6104	G - 3	D6127	E - 4
Q6105	I - 2	D6128	E - 4
Q6106	G - 3	D6129	G - 4
Q6107	I - 2	D6198	G - 3
Q6108	H - 2	D6253	G - 2
Q6110	G - 3	D6254	F - 2
Q6112	I - 3	D6255	E - 3
Q6113	I - 4	D6350	C - 5
Q6118	H - 5	D6351	C - 5
Q6119	G - 4	D6352	A - 4
Q6120	G - 4	D6353	B - 3
Q6122	G - 4	D6354	A - 3
Q6123	I - 4	D6355	C - 4
Q6125	I - 6	D6358	B - 2
Q6126	I - 6	D6359	B - 2
Q6127	E - 4	D6401	E - 5
Q6128	I - 5	D6402	E - 5
Q6129	H - 3	D6403	D - 1
Q6201	H - 5	D6404	C - 1
Q6202	H - 5	D6405	E - 1
Q6250	G - 5		
Q6251	F - 4		
Q6252	E - 2		
Q6253	I - 1		
Q6254	H - 2		

Ref	28FC60	28FC60/Z	32FC60	32FC60/Z
C6130	220PF	220PF	-	-
C6134	10PF	10PF	-	-
R6107	1.8K	1.8K	2.2K	2.2K
R6108	1.8K	1.8K	2.2K	2.2K
R6127	2.2K	2.2K	3.3K	3.3K
R6130	470K	470K	510K	510K
R6141	22K	22K	15K	15K
R6142	6.2K	6.2K	4.7K	4.7K
R6144	220K	220K	120K	120K
R6145	1.5K	1.5K	1.8K	1.8K
R6154	5.6K	5.6K	1K	1K
R6158	2.2K	2.2K	4.7K	4.7K
R6159	2.2K	2.2K	SHORT 0	SHORT 0
R6161	6.8K	6.8K	8.2K	8.2K
R6174	12K	12K	22K	22K
R6175	4.7K	4.7K	6.8K	6.8K
R6176	SHORT 0	SHORT 0	8.2K	8.2K
R6179	4.7K	4.7K	SHORT 0	SHORT 0
R6186	680	680	3.9K	3.9K
R6189	2.7K	2.7K	SHORT 0	SHORT 0
R6193	100PF	100PF	-	-
R6198	47K	47K	22K	22K
R6200	68K	68K	-	-
R6206	270K	270K	220K	220K
R6207	470K	470K	220K	220K
R6265	150K	150K	220K	220K
R6266	-	-	470K	470K
R6268	22K	22K	68K	68K
R6276	12K	12K	30K	30K
R6277	12K	12K	30K	30K
R6284	470K	470K	330K	330K
R6286	10K	10K	8.2K	8.2K
R6287	10K	10K	22K	22K
R6370	10K	10K	12K	12K
R6428	180K	180K	150K	150K
R6431	560K	560K	470K	470K

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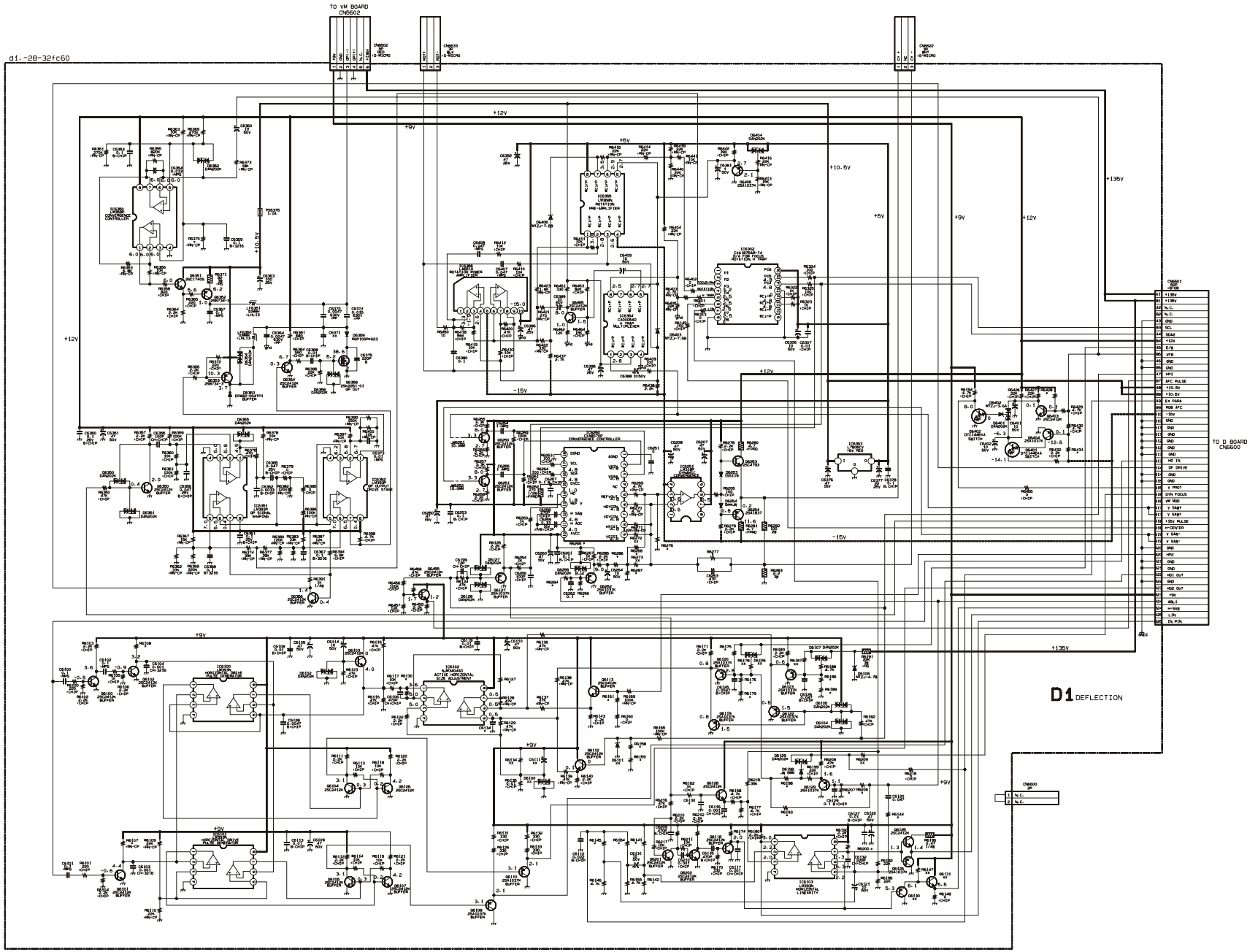
D1 [DEFLECTION]



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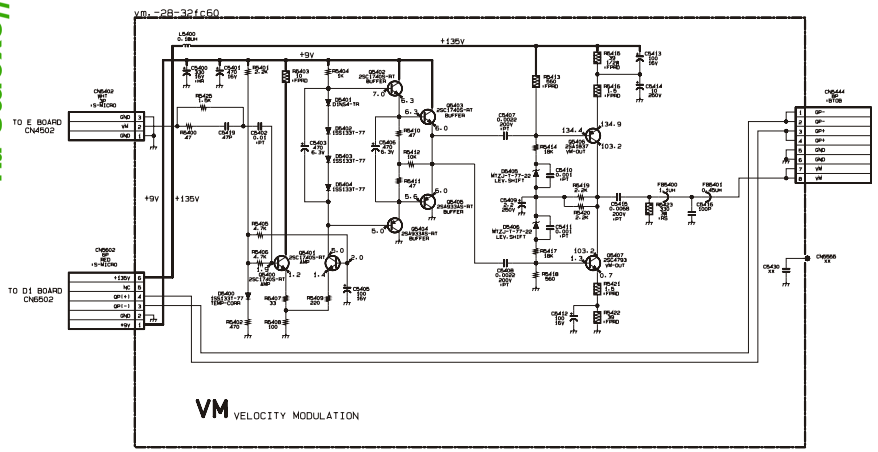
VM [VELOCITY MODULATION]



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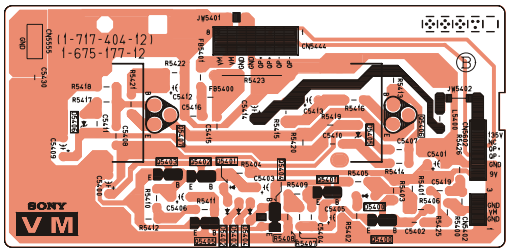
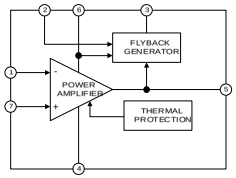
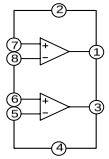


5-4. IC BLOCK DIAGRAMS

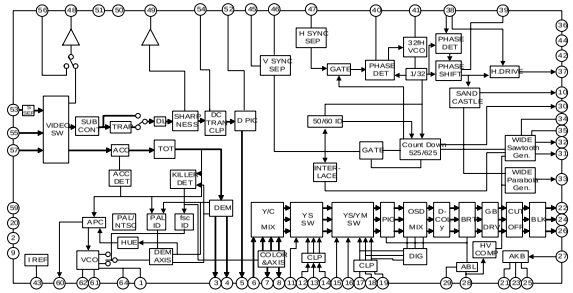
D BOARD IC6700 STV 9379



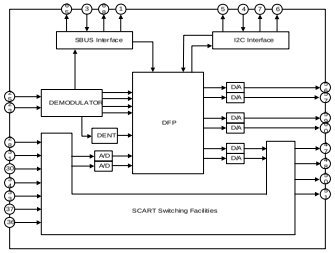
J BOARD IC8101 TDA2822D



E BOARD IC4301 CXA2100Q-TL

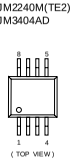


J BOARD IC8200 MSP3410D-QA-B4

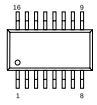


5-5. SEMICONDUCTORS

BA7046F
BA7046F-T1
LM393PS-E20
MB3793-42NF
MB3793-42NF-ER
NJM2240M
NJM2240M(TE2)
NJM3404AD

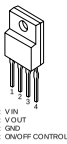


CXA1875AM-T4
HE4094BT
MC14052BDR2
MC74F157ADR2
SN74LS221D
74HCT4046AD/S470



CXD2053S
TDA4780/V3

KA78R05TU
KA78R09TU
KA78R33TU

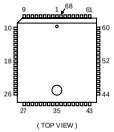


LM393D
M5216P
M24C32-BN6
ST24C16FB6
TDA2822M
UPC393C

LM78L05ACZ
LM78L12ACZ
L78L05ACZ-AP
L78L12ACZ-AP

MB3793-42PNF-ER

MSP3410D-QA-B4
SAA7185WP
SDA5273P-C134-GEG
SDA5275
SDA9280B22



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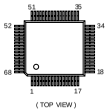
PC123FY2

P83C654EBA/585



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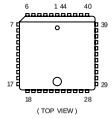
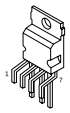
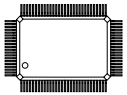


SBX1981-51

STV9379



SAB-C161R1-LM



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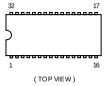
TDA7309D013TR

TDA8755-T

TDA9143/N2
TDA9144/N2
TDA9170T
SDA9288X-B121



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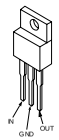
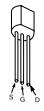


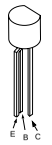
TL431C2

TOP209P

BC546B
BC556B

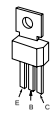


BF199
BF199-AMMO



BF421-AMMO

BF87-127



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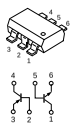

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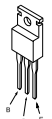
IRF620



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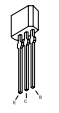
DTA144EK-T146
DTC114EK
DTC114YKA-T146
DTC123EK
DTC123EK-T146
DTC124EKA-T146

DTC144EK
DTC144EK-T146
DTC114YKA-T146
2SA1037K-T-146-R
2SA1162-G
2SC2412K-QR
2SC2412K-T-146-R

DTA144ESA
DTA144ESA-TP
DTC114ESA-TP
DTC144ESA-TP
2SA1175-HFE
2SA733-K

2SA933AS-RT
2SA933AS-QRT
2SA933S-RT
2SC1740S-RT
2SC2785-HFE



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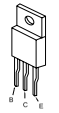

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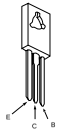
2SC2551O-TPE2

2SC2688-LK
2SC3840K



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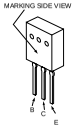

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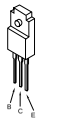

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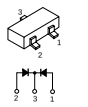

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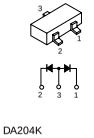

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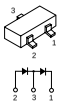
DA204K-T-146



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D1N54-TR
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R2K-V1

RGP02-20EG23
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RGP15GPKG23
S2LA20F
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1SS83
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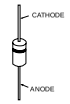

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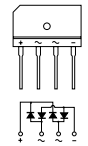
D4SB60L-F
RBA-402L



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ERA82-004TP1
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MTZJ-T-77-22
MTZJ-T-77-33C
MTZJ-T-77-3.6A
MTZJ-T-77-4.7B
MTZJ-T-77-5.6B
MTZJ-T-77-6.8
MTZJ-T-77-7.5B
MTZJ-T-77-9.1
MTZJ-T-77-13B
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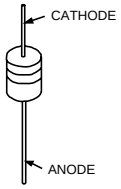
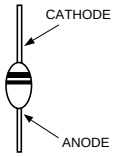


ERC04-06SE



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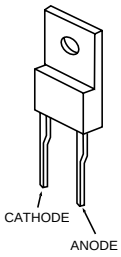

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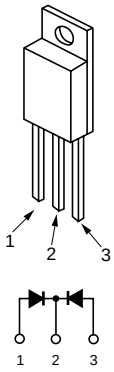

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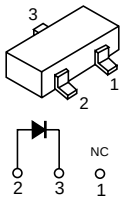
MA3033L-TX
MA3056M-TX
MA3062M-TX
MA3030-H-(TX)



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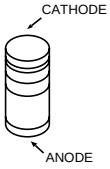
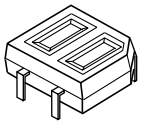
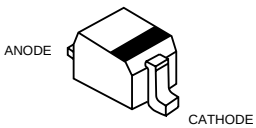


MA73-TX



RD12SB2
UDZ-TE-17-4.7B
UDZ-TE-5.6B
UDZ-TE-17-6.2B
UDZ-TE-17-6.8B
UDZ-TE-17-8.2B
UDZ-TE-12B
ISS355TE-17



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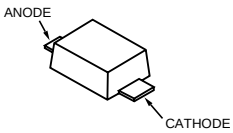

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SECTION 6
EXPLODED VIEWS

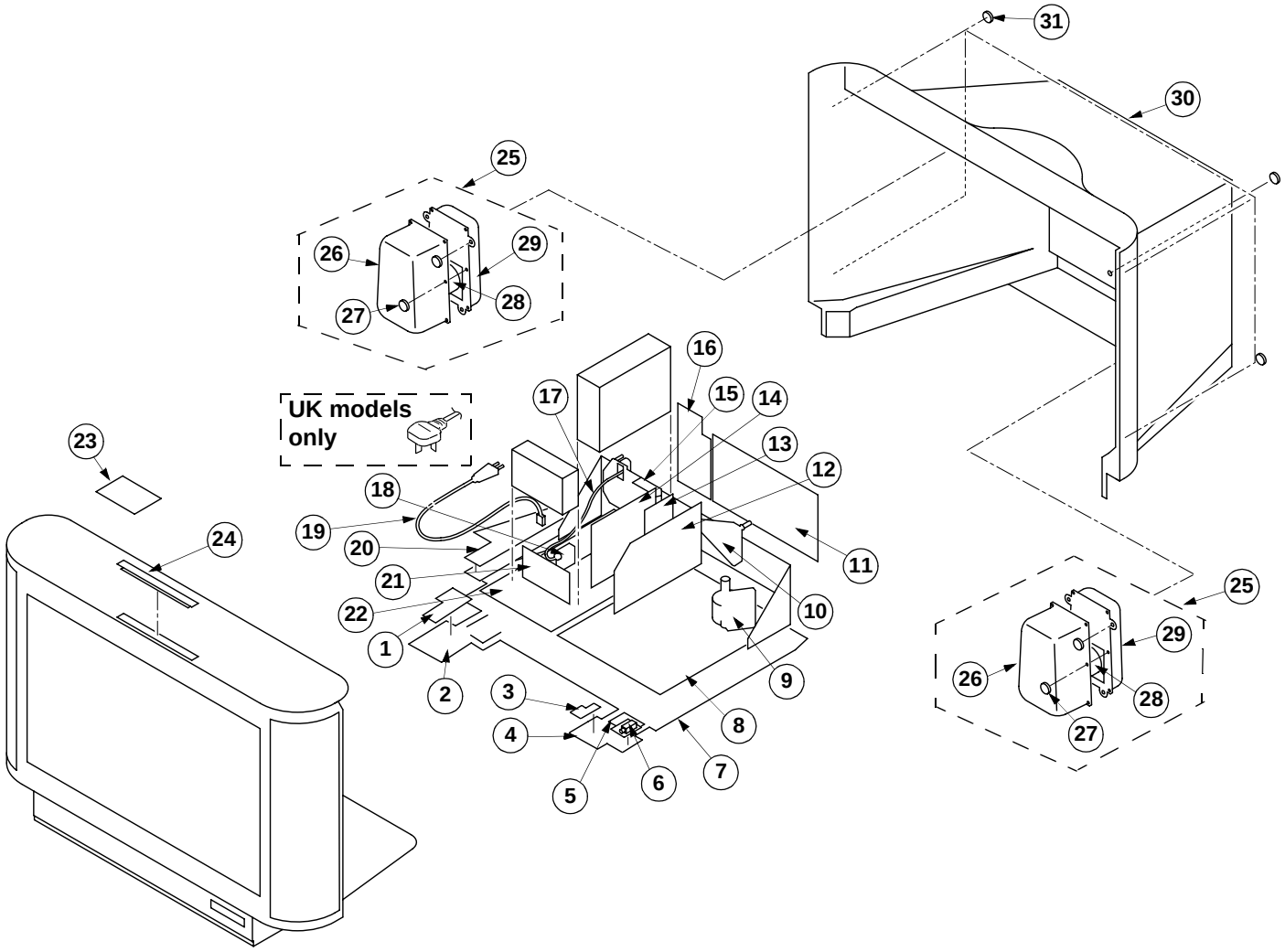
Note : Les composants indentifies par une trame et par une marque ⚠ sonte d'une importance critique pour la securite. Ne les remplacer que par des pieces du numero specifie.

Note : The components identified by shading and marked ⚠ are critical for safety. Replace only with the part numbers specified in the parts list.

NOTE :

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remarks column.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

6-1. CHASSIS



REF. NO.		PART.NO	DESCRIPTION	REMARK
1		*A-1646-194-A	H3 BOARD, COMPLETE	
2		*4-205-007-11	BRACKET, H3	
3		*A-1646-193-A	H2 BOARD, COMPLETE	
4		*4-205-005-11	BRACKET, H2	
5		*A-1624-084-A	F2 BOARD, COMPLETE	
6	⚠	1-571-433-21	SWITCH, PUSH (AC POWER)	
7		*4-204-549-02	BRACKET, MAIN	
8		*A-1640-328-A	D BOARD, COMPLETE (KV-28FC60/28FC60/Z)	
		*A-1640-323-A	D BOARD, COMPLETE (KV-32FC60/32FC60/Z)	
9	⚠	1-453-319-11	TRANSFORMER ASSY, FLYBACK (NX-4512/U214)	
10		*4-204-476-03	BRACKET, J1	
11		*A-1651-119-A	J BOARD, COMPLETE	
12		*A-1640-369-A	D1 BOARD, COMPLETE (KV-28FC60/28FC60/Z)	
		*A-1640-366-A	D1 BOARD, COMPLETE (KV-32FC60/32FC60/Z)	
13		*A-1640-348-A	E BOARD, COMPLETE (KV-28FC60/28FC60/Z)	
		*A-1640-347-A	E BOARD, COMPLETE (KV-32FC60/32FC60/Z)	
14		*A-1620-112-A	B1 BOARD, COMPLETE	
15		*4-204-477-03	BRACKET, J2	
16		*A-1648-026-A	U BOARD, COMPLETE	
17		1-790-082-11	CABLE, RF	
18		1-693-340-11	TUNER/VIF (FR)	
19	⚠	1-769-185-21	CORD, POWER (WITH CONNECTOR)	
20		*A-1624-083-A	F1 BOARD, COMPLETE	
21		*A-1634-047-A	M BOARD, COMPLETE	
22		*A-1631-051-A	A BOARD, COMPLETE	
23		*A-1646-195-A	H4 BOARD, COMPLETE	
24		1-771-599-11	SWITCH, ARRAY (KV-28FC60/32FC60)	
		1-771-799-11	ARRAY, SWITCH (KV-28FC60/Z/32FC60/Z)	
25		*A-1678-177-A	WOOFER ASSY SP	26-29

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REF. NO.	PART.NO	DESCRIPTION	REMARK
26	*4-204-776-21	BOX, WOOFER	
27	7-685-663-71	SCREW (4X16), (+) BV TAPPING	
28	1-529-417-11	SPEAKER (8CM)	
29	*4-204-775-21	BAFFLE WOOFER	
30	4-205-036-11	COVER, REAR (KV-28FC60/28FC60/Z)	
	4-205-002-11	COVER, REAR (KV-32FC60)	
	4-205-002-01	COVER, REAR (KV-32FC60/Z)	
31	4-039-358-01	SCREW (4x16)	

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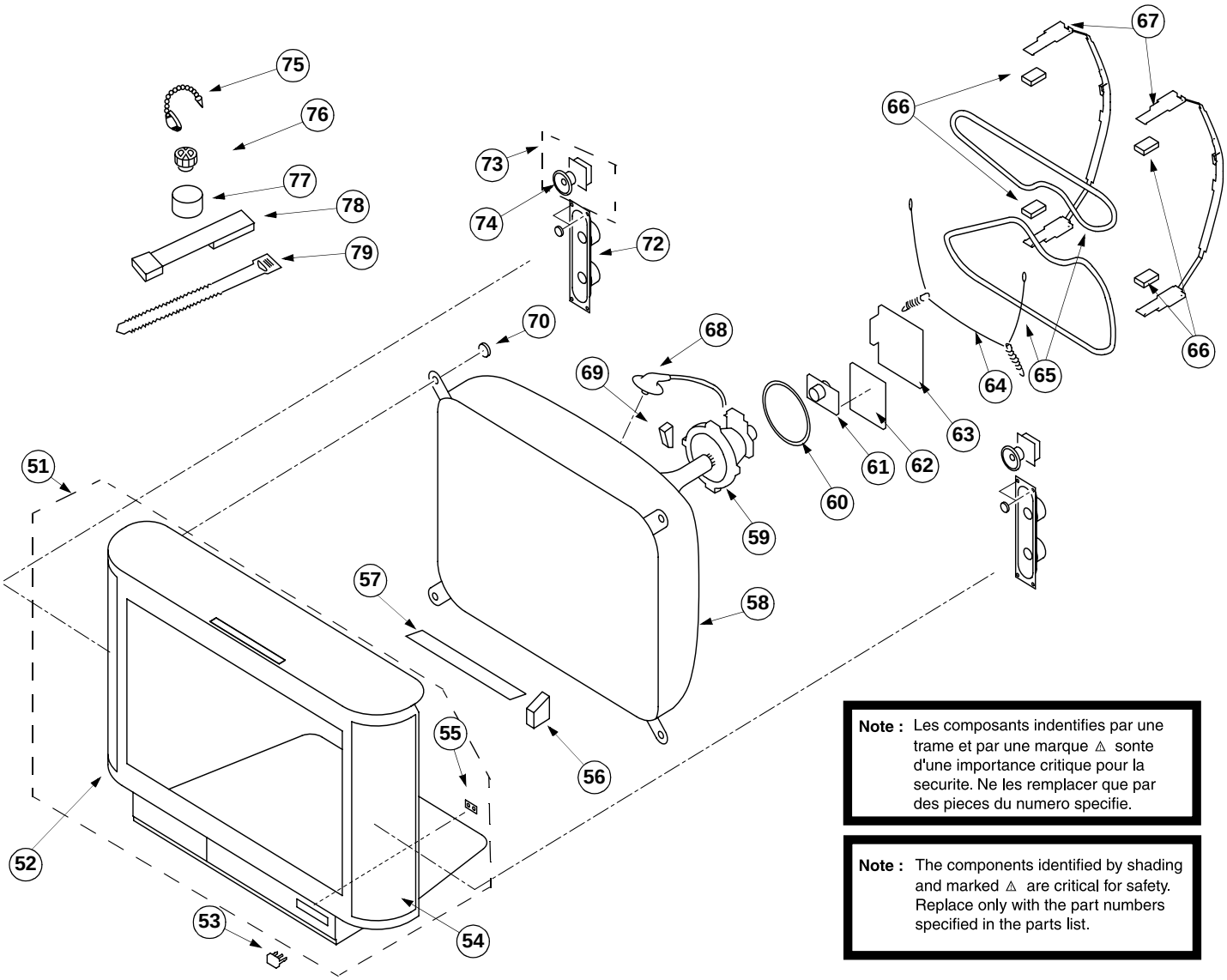
6-2. PICTURE TUBE



Note : Les composants indentifies par une trame et par une marque ⚠ sonte d'une importance critique pour la securite. Ne les remplacer que par des pieces du numero specifie.

Note : The components identified by shading and marked ⚠ are critical for safety. Replace only with the part numbers specified in the parts list.

REF. NO.		PART.NO	DESCRIPTION	REMARK
51		X-4200-533-2	BEZNET ASSY (KV-28FC60)	55
		X-4200-533-1	BEZNET ASSY (KV-28FC60/Z)	
		X-4200-513-2	BEZNET ASSY (KV-32FC60)	
		X-4200-513-1	BEZNET ASSY (KV-32FC60/Z)	
52		*X-4200-537-1	SPEAKER COVER ASSY, CLOTH (KV-28FC60/32FC60)	
53		4-205-004-11	BUTTON, POWER	
54		*X-4200-534-1	SPEAKER COVER ASSY (L) METAL (KV-28FC60/Z/32FC60/Z)	
		*X-4200-535-1	SPEAKER COVER ASSY (R) METAL (KV-28FC60/Z/32FC60/Z)	
55		4-205-003-01	LIGHT GUIDE	
56		*4-203-098-01	SUPPORTER, CRT (KV-32FC60/32FC60/Z)	
57		4-203-128-41	SHEET, BLOTTING	
58	⚠	8-737-786-05	PICTURE TUBE (W66LLX060X) (SD-299) (KV-28FC60/28FC60/Z)	
	⚠	8-735-054-05	PICTURE TUBE (W76LLZ060X) (SD-302) (KV-32FC60/32FC60/Z)	
59	⚠	1-451-481-11	DEFLECTION YOKE (Y28RVC2) (KV-28FC60/32FC60/Z)	
	⚠	1-451-480-11	DEFLECTION YOKE (Y32RVC2) (KV-32FC60/32FC60/Z)	
60		1-452-896-11	COIL, NA ROTATION (RT200)	
61	⚠	8-453-011-11	NECK ASSY, NA299-M	
62		*A-1644-103-A	VM BOARD, COMPLETE	
63		*A-1638-132-A	C BOARD, COMPLETE	

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REF. NO.		PART.NO	DESCRIPTION	REMARK
64		4-200-433-01	SPRING, EXTENSION	
65	⚠	1-416-466-11	COIL, DEMAGNETIC (KV-28FC60/28FC60/Z)	
	⚠	1-416-769-11	COIL, DEMAGNETIC (KV-32FC60/32FC60/Z)	
66		*4-203-390-21	CUSHION, DGC (KV-28FC60/28FC60/Z)	
		*4-203-390-31	CUSHION, DGC (KV-32FC60/32FC60/Z)	
67		*4-057-303-01	HOLDER, DGC (KV-28FC60/28FC60/Z)	
		*4-059-569-01	HOLDER, DGC (KV-32FC60/32FC60/Z)	
68	⚠	1-251-317-63	CAP ASSY, HIGH-VOLTAGE	
69		4-203-658-01	SPACER, DY	
70		4-036-188-01	SCREW, SELF TAPPING (KV-28FC60/28FC60/Z)	
		4-204-225-01	PT SCREW (KV-32FC60/32FC60/Z)	
72		1-529-154-11	SPEAKER (5.7X24CM)	
73		*A-1678-178-A	TWEETER SUB ASSEMBLY	74
74		1-529-155-11	SPEAKER (4.2X2.7CM)	
75		4-308-870-00	CLIP, LEAD WIRE	
76		1-452-094-00	MAGNET, ROTATABLE DISK; 15MM	
77		1-452-032-00	MAGNET, DISK; 10MM	
78		X-4387-214-1	PERMALLOY ASSY, CORRECTION	
79		3-701-007-00	BAND, BINDING	

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SECTION 7
ELECTRICAL PARTS LIST

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D BOARD VARIANT Parts List : Parts that belong only to the model specified

Model

KV-28FC60/28FC60/Z 112

KV-32FC60/32FC60/Z 112

E BOARD COMMON Parts List : Parts common to all models listed in this manual 112

E BOARD VARIANT Parts List : Parts that belong only to the model specified

Model

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D1 BOARD COMMMON Parts List : Parts common to all models listed in this manual 114

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Model

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U BOARD COMPLETE Parts List : 120

J BOARD COMPLETE Parts List : 120

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Note : Refer to the designated variant parts list when seeking a part indicated by an asterisk (*)

Parts indicated (#) on the Schematic Diagram are not used in this model and therefore do not appear in the Parts List.

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*A-1620-112-A B1 Board, Complete

< CAPACITOR >

REF. NO.	PART.NO	DESCRIPTION		REMARK	
C2301	1-126-934-11	ELECT	220MF	20%	16V
C2302	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2303	1-126-964-11	ELECT	10MF	20%	50V
C2304	1-163-125-00	CERAMIC CHIP	220PF	5%	50V
C2305	1-163-259-91	CERAMIC CHIP	220PF	5%	50V
C2306	1-163-125-00	CERAMIC CHIP	220PF	5%	50V
C2307	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2308	1-163-125-00	CERAMIC CHIP	220PF	5%	50V
C2309	1-126-934-11	ELECT	220MF	20%	16V
C2311	1-126-963-11	ELECT	4.7MF	20%	50V
C2312	1-126-963-11	ELECT	4.7MF	20%	50V
C2313	1-126-963-11	ELECT	4.7MF	20%	50V
C2314	1-163-141-00	CERAMIC CHIP	0.001MF	5%	50V
C2315	1-164-489-11	CERAMIC CHIP	0.22MF	10%	16V
C2316	1-110-501-11	CERAMIC CHIP	0.33MF	10%	16V
C2317	1-162-638-11	CERAMIC CHIP	1MF		16V
C2318	1-163-989-11	CERAMIC CHIP	0.033MF	10%	25V
C2319	1-163-989-11	CERAMIC CHIP	0.033MF	10%	25V
C2320	1-164-489-11	CERAMIC CHIP	0.22MF	10%	16V
C2323	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V
C2324	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2325	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2327	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2328	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2329	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2330	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2331	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2332	1-163-105-00	CERAMIC CHIP	33PF	5%	50V
C2333	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2334	1-126-964-11	ELECT	10MF	20%	50V
C2335	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2337	1-163-125-00	CERAMIC CHIP	220PF	5%	50V
C2338	1-126-934-11	ELECT	220MF	20%	16V
C2339	1-164-005-11	CERAMIC CHIP	0.47MF		25V
C2340	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2342	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2343	1-126-961-11	ELECT	2.2MF	20%	50V
C2344	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2345	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2346	1-126-964-11	ELECT	10MF	20%	50V
C2347	1-163-097-00	CERAMIC CHIP	15PF	5%	50V
C2348	1-163-097-00	CERAMIC CHIP	15PF	5%	50V
C2349	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2350	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2351	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2354	1-126-934-11	ELECT	220MF	20%	16V
C2356	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2357	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2358	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2361	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2362	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2363	1-126-934-11	ELECT	220MF	20%	16V
C2364	1-163-239-11	CERAMIC CHIP	33PF	5%	50V
C2366	1-163-239-11	CERAMIC CHIP	33PF	5%	50V
C2367	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2368	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2371	1-163-239-11	CERAMIC CHIP	33PF	5%	50V
C2372	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2374	1-163-239-11	CERAMIC CHIP	33PF	5%	50V
C2377	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2378	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2380	1-163-145-00	CERAMIC CHIP	0.0015MF	5%	50V
C2381	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2382	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2383	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2385	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2387	1-136-250-11	FILM	0.001MF	2%	100V
C2388	1-136-479-11	FILM	0.001MF	1%	100V
C2389	1-163-085-00	CERAMIC CHIP	2PF	0.25PF	50V
C2390	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C2391	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C2704	1-126-934-11	ELECT	220MF	20%	16V
C2705	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V

< CONNECTOR >

CN2100	1-695-301-11	CONNECTOR, BOARD TO BOARD 40P	

< FILTER >

FL2300	1-236-071-11	ENCAPSULATED COMPONENT	
FL2301	1-233-767-21	FILTER	
FL2302	1-236-071-11	ENCAPSULATED COMPONENT	
FL2303	1-236-071-11	ENCAPSULATED COMPONENT	
FL2308	1-233-736-21	FILTER, EMI	

< IC >

IC2300	8-759-991-41	IC LM78L05ACZ	
IC2301	8-759-295-09	IC TLC2932IPW	
IC2302	8-759-257-59	IC TDA8755T-T	
IC2303	8-759-438-64	IC SAA4952WP/V1	
IC2304	8-759-546-02	IC SAA4995WP-V1-T3	
IC2305	8-759-295-09	IC TLC2932IPW	

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B1

REF. NO.	PART.NO	DESCRIPTION			REMARK
IC2307	8-759-546-04	IC SAA4991WP-V1-T3			
IC2308	8-759-572-55	IC P83C654EBA/585			
IC2310	8-759-991-41	IC LM78L05ACZ			
IC2311	8-759-467-19	IC SDA9280B22			
IC2312	8-759-576-70	IC MSM5412222A-25JS-DR1			
IC2313	8-759-576-70	IC MSM5412222A-25JS-DR1			
IC2314	8-759-439-26	IC SN74LS221D			
		< COIL >			
L2300	1-408-597-31	INDUCTOR	3.3UH		
L2301	1-410-435-21	INDUCTOR	220UH		
L2302	1-410-435-21	INDUCTOR	220UH		
L2303	1-408-597-31	INDUCTOR	3.3UH		
L2304	1-414-186-31	INDUCTOR	33UH		
L2305	1-408-603-31	INDUCTOR	10UH		
L2306	1-414-186-31	INDUCTOR	33UH		
L2307	1-414-384-11	INDUCTOR	5.6UH		
		< TRANSISTOR >			
Q2301	1-801-806-11	TRANSISTOR DTC144EKA			
Q2302	1-801-806-11	TRANSISTOR DTC144EKA			
Q2303	1-801-806-11	TRANSISTOR DTC144EKA			
Q2304	1-801-806-11	TRANSISTOR DTC144EKA			
Q2305	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R			
Q2306	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R			
Q2307	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R			
		< RESISTOR >			
R2300	1-216-051-00	RES,CHIP	1.2K	5%	1/10W
R2301	1-216-053-00	RES,CHIP	1.5K	5%	1/10W
R2302	1-216-067-00	RES,CHIP	5.6K	5%	1/10W
R2303	1-216-059-00	RES,CHIP	2.7K	5%	1/10W
R2304	1-216-051-00	RES,CHIP	1.2K	5%	1/10W
R2305	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R2306	1-216-295-91	SHORT	0		
R2307	1-216-049-91	RES,CHIP	1K	5%	1/10W
R2310	1-216-049-91	RES,CHIP	1K	5%	1/10W
R2312	1-216-049-91	RES,CHIP	1K	5%	1/10W
R2313	1-216-047-91	RES,CHIP	820	5%	1/10W
R2314	1-216-063-91	RES,CHIP	3.9K	5%	1/10W
R2315	1-216-121-91	RES,CHIP	1M	5%	1/10W
R2316	1-216-073-00	RES,CHIP	10K	5%	1/10W
R2317	1-216-025-91	RES,CHIP	100	5%	1/10W
R2320	1-216-295-91	SHORT	0		
R2321	1-216-295-91	SHORT	0		
R2337	1-216-049-91	RES,CHIP	1K	5%	1/10W
R2338	1-216-295-91	SHORT	0		
R2341	1-216-295-91	SHORT	0		
R2345	1-216-025-91	RES,CHIP	100	5%	1/10W
R2348	1-216-089-91	RES,CHIP	47K	5%	1/10W
R2355	1-216-295-91	SHORT	0		
R2356	1-216-063-91	RES,CHIP	3.9K	5%	1/10W
R2358	1-216-295-91	SHORT	0		
R2359	1-216-001-00	RES,CHIP	10	5%	1/10W
R2360	1-216-085-00	RES,CHIP	33K	5%	1/10W
R2361	1-216-085-00	RES,CHIP	33K	5%	1/10W
R2362	1-216-025-91	RES,CHIP	100	5%	1/10W
R2363	1-216-025-91	RES,CHIP	100	5%	1/10W
R2364	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R2365	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R2366	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R2367	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R2368	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R2369	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R2370	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R2371	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R2372	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R2373	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R2374	1-216-049-91	RES,CHIP	1K	5%	1/10W
R2375	1-216-049-91	RES,CHIP	1K	5%	1/10W
R2376	1-216-049-91	RES,CHIP	1K	5%	1/10W
R2377	1-216-049-91	RES,CHIP	1K	5%	1/10W
R2378	1-216-029-00	RES,CHIP	150	5%	1/10W
R2379	1-216-076-00	RES,CHIP	13K	5%	1/10W
R2380	1-216-073-00	RES,CHIP	10K	5%	1/10W
R2381	1-216-021-00	RES,CHIP	68	5%	1/10W
R2382	1-216-049-91	RES,CHIP	1K	5%	1/10W
R2383	1-216-049-91	RES,CHIP	1K	5%	1/10W
R2384	1-216-021-00	RES,CHIP	68	5%	1/10W
R2385	1-216-037-00	RES,CHIP	330	5%	1/10W
R2386	1-216-295-91	SHORT	0		
R2387	1-216-027-00	RES,CHIP	120	5%	1/10W
R2388	1-216-037-00	RES,CHIP	330	5%	1/10W
R2389	1-216-069-00	RES,CHIP	6.8K	5%	1/10W
R2390	1-216-049-91	RES,CHIP	1K	5%	1/10W
R2391	1-216-025-91	RES,CHIP	100	5%	1/10W
R2392	1-216-295-91	SHORT	0		
R2393	1-216-025-91	RES,CHIP	100	5%	1/10W
R2394	1-216-025-91	RES,CHIP	100	5%	1/10W
R2395	1-216-295-91	SHORT	0		
R2400	1-216-295-91	SHORT	0		
R2403	1-216-295-91	SHORT	0		
R2404	1-216-295-91	SHORT	0		
R2410	1-216-037-00	RES,CHIP	330	5%	1/10W

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The components identified by shading and marked ⚠ are critical for safety
Replace only with the part number specified.

REF. NO.	PART.NO	DESCRIPTION			REMARK
R2411	1-216-037-00	RES,CHIP	330	5%	1/10W
R2412	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W
R2413	1-216-664-11	METAL CHIP	3.6K	0.50%	1/10W
R2415	1-216-295-91	SHORT	0		
R2701	1-216-049-91	RES,CHIP	1K	5%	1/10W
R2702	1-216-049-91	RES,CHIP	1K	5%	1/10W
R2703	1-216-025-91	RES,CHIP	100	5%	1/10W
R2704	1-216-025-91	RES,CHIP	100	5%	1/10W
R2705	1-216-049-91	RES,CHIP	1K	5%	1/10W
R2706	1-216-049-91	RES,CHIP	1K	5%	1/10W
R2711	1-216-001-00	RES,CHIP	10	5%	1/10W
R2713	1-216-049-91	RES,CHIP	1K	5%	1/10W
R2714	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R2715	1-216-049-91	RES,CHIP	1K	5%	1/10W
R2716	1-216-025-91	RES,CHIP	100	5%	1/10W
R2717	1-216-295-91	SHORT	0		
R2718	1-216-295-91	SHORT	0		
R2719	1-216-295-91	SHORT	0		
R2720	1-216-295-91	SHORT	0		
R2721	1-216-295-91	SHORT	0		
R2722	1-216-295-91	SHORT	0		
R2723	1-216-027-00	RES,CHIP	120	5%	1/10W
R2724	1-216-295-91	SHORT	0		
R2725	1-216-009-91	RES,CHIP	22	5%	1/10W
R2726	1-216-295-91	SHORT	0		
R2727	1-216-295-91	SHORT	0		
R2728	1-216-049-91	RES,CHIP	1K	5%	1/10W
R2734	1-216-295-91	SHORT	0		
R2735	1-216-021-00	RES,CHIP	68	5%	1/10W
R2736	1-216-295-91	SHORT	0		
R2738	1-216-025-91	RES,CHIP	100	5%	1/10W
		< CRYSTAL >			
X2300	1-579-175-11	VIBRATOR, CERAMIC			

*A-1624-083-A F1 Board, Complete

*4-374-846-01 COVER, CAPACITOR, CAP TYPE

< CAPACITOR >

C7626	⚠ 1-136-527-12	FILM	0.47MF	20%	300V

< CONNECTOR >

CN7611	⚠ *1-580-844-11	PIN, CONNECTOR (POWER)	
CN7622	1-695-915-11	TAB (CONTACT)	
CN7633	⚠ *1-580-843-11	PIN, CONNECTOR (POWER)	

< FUSE >

F7626	⚠ 1-532-299-00	FUSE	
	⚠ *1-533-725-11	HOLDER, FUSE (F7626)	

< FILTER >

LF7627	⚠ 1-433-488-11	TRANSFORMER, LINE FILTER	

< RESISTOR >

R7626	⚠ 1-202-885-91	SOLID	1M	20%	1/2W
R7627	⚠ 1-220-797-11	CEMENTED	0.47	5%	10W F

< VARISTOR >

VDR7626	⚠ 1-801-268-51	VARISTOR ERZV14D471	

*A-1624-084-A F2 Board, Complete

< CONNECTOR >

CN7700	⚠ *1-691-291-11	PIN, CONNECTOR (PC BOARD) 5P	
CN7733	⚠ *1-580-843-11	PIN, CONNECTOR (POWER)	

< SWITCH >

S7751	⚠ 1-571-433-21	SWITCH, PUSH (AC POWER)	

*A-1631-051-A A Board, Complete

4-382-854-11 SCREW (M3X10), P, SW (+)
*4-931-401-01 HEAT SINK, V.OUT

< CAPACITOR >

C1100	1-104-664-11	ELECT	47MF	20%	25V
C1101	1-126-943-11	ELECT	2200MF	20%	25V
C1126	1-162-568-11	CERAMIC CHIP	0.33MF	10%	16V
C1127	1-137-194-81	FILM	0.47MF	5%	50V
C1128	1-163-135-00	CERAMIC CHIP	560PF	5%	50V
C1129	1-115-339-11	CERAMIC CHIP	0.1MF	10%	50V
C1130	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C1131	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C1132	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V
C1133	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1134	1-126-961-11	ELECT	2.2MF	20%	50V
C1135	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1136	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1137	1-126-953-11	ELECT	2200MF	20%	35V
C1138	1-126-953-11	ELECT	2200MF	20%	35V
C1139	1-104-329-11	CERAMIC CHIP	0.1MF	10%	50V
C1140	1-111-142-91	ELECT	150MF	20%	63V

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REF. NO.	PART.NO	DESCRIPTION		REMARK
C1141	1-164-505-11	CERAMIC CHIP 2.2MF		16V
C1151	1-162-568-11	CERAMIC CHIP 0.33MF	10%	16V
C1152	1-137-194-81	FILM 0.47MF	5%	50V
C1153	1-163-135-00	CERAMIC CHIP 560PF	5%	50V
C1154	1-115-339-11	CERAMIC CHIP 0.1MF	10%	50V
C1155	1-163-017-00	CERAMIC CHIP 0.0047MF	10%	50V
C1156	1-163-251-11	CERAMIC CHIP 100PF	5%	50V
C1157	1-163-021-91	CERAMIC CHIP 0.01MF	10%	50V
C1158	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C1159	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C1160	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C1161	1-104-329-11	CERAMIC CHIP 0.1MF	10%	50V
C1162	1-111-142-91	ELECT 150MF	20%	63V
C1163	1-164-505-11	CERAMIC CHIP 2.2MF		16V
C1176	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C1177	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C1178	1-126-964-11	ELECT 10MF	20%	50V
C1179	1-126-964-11	ELECT 10MF	20%	50V
C1180	1-126-952-11	ELECT 1000MF	20%	35V
C1181	1-126-952-11	ELECT 1000MF	20%	35V
C1182	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C1183	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C1184	1-107-823-11	CERAMIC CHIP 0.47MF	10%	16V
C1185	1-107-823-11	CERAMIC CHIP 0.47MF	10%	16V
C1226	1-104-661-91	ELECT 330MF	20%	16V
C1227	1-115-340-91	CERAMIC CHIP 0.22	10%	25V
C1326	1-163-059-91	CERAMIC CHIP 0.01MF	10%	50V
C1327	1-126-934-11	ELECT 220MF	20%	10V
C1328	1-163-117-00	CERAMIC CHIP 100PF	5%	50V
C1601	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C1602	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C1603	1-126-933-11	ELECT 100MF	20%	16V
C1604	1-126-933-11	ELECT 100MF	20%	16V
C1605	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C1607	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C1608	1-126-934-11	ELECT 220MF	20%	16V
C1610	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C1611	1-126-933-11	ELECT 100MF	20%	16V
C1615	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
		< CONNECTOR >		
CN1111	*1-564-520-11	PLUG, CONNECTOR 5P		
CN1200	1-695-298-11	CONNECTOR, BOARD TO BOARD 40P		
CN1401	1-695-298-11	CONNECTOR, BOARD TO BOARD 40P		
CN1600	1-900-903-64	CONNECTOR ASSY 20P		
CN1601	1-900-903-64	CONNECTOR ASSY 20P		
CN1602	1-900-903-64	CONNECTOR ASSY 20P		
CN1666	1-695-915-11	TAB (CONTACT)		
CN1700	*1-568-879-11	PIN, CONNECTOR 4P		
CN1701	1-573-296-11	CONNECTOR, BOARD TO BOARD 10P		
CN1702	*1-568-880-51	PIN, CONNECTOR 5P		
CN1703	1-764-334-11	PLUG, CONNECTOR 11P		
CN1801	1-695-299-11	CONNECTOR, BOARD TO BOARD 50P		
CN1811	1-695-915-11	TAB (CONTACT)		
CN1901	1-695-298-11	CONNECTOR, BOARD TO BOARD 40P		
		< DIODE >		
D1100	8-719-914-43	DIODE DAN202K		
D1101	8-719-914-44	DIODE DAP202K		
D1102	8-719-914-43	DIODE DAN202K		
D1103	8-719-914-43	DIODE DAN202K		
D1104	8-719-914-43	DIODE DAN202K		
D1201	8-719-976-96	DIODE DTZ4.7C		
D1401	8-719-069-56	DIODE UDZS-TE17-6.2B		
D1402	8-719-069-56	DIODE UDZS-TE17-6.2B		
D1403	8-719-069-56	DIODE UDZS-TE17-6.2B		
D1404	8-719-069-56	DIODE UDZS-TE17-6.2B		
D1405	8-719-914-44	DIODE DAP202K		
D1406	8-719-914-44	DIODE DAP202K		
D1407	8-719-069-55	DIODE UDZS-TE17-5.6B		
D1408	8-719-069-55	DIODE UDZS-TE17-5.6B		
D1626	8-719-914-43	DIODE DAN202K		
D1627	8-719-914-43	DIODE DAN202K		
D1629	8-719-914-43	DIODE DAN202K		
		< FERRITE BEAD >		
FB1126	1-535-303-00	LEAD, JUMPER (5.0MM)		
FB1127	1-410-397-21	FERRITE 1.1UH		
FB1151	1-535-303-00	LEAD, JUMPER (5.0MM)		
FB1152	1-410-397-21	FERRITE 1.1UH		
FB1901	1-414-553-11	FERRITE 0UH		
FB1903	1-414-553-11	FERRITE 0UH		
FB1904	1-414-553-11	FERRITE 0UH		
FB1905	1-414-553-11	FERRITE 0UH		
FB1906	1-414-553-11	FERRITE 0UH		
FB1907	1-414-553-11	FERRITE 0UH		
		< IC >		
IC1126	8-759-544-25	IC TDA7482		
IC1151	8-759-544-25	IC TDA7482		
IC1176	8-759-333-24	IC LM1876TF		
IC1400	8-752-072-94	IC CXA1875AM-T4		
IC1601	8-759-574-76	IC KA78R05-SYDTU		
IC1602	8-759-574-78	IC KA278R05-YDTU		

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REF. NO.	PART.NO	DESCRIPTION			REMARK
IC1604	8-759-544-13	IC KA78R09TU			
		< COIL >			
L1126	1-416-857-11	INDUCTOR	65UH		
L1127	1-414-158-11	INDUCTOR	2.2UH		
L1128	1-414-158-11	INDUCTOR	2.2UH		
L1151	1-416-857-11	INDUCTOR	65UH		
L1152	1-414-158-11	INDUCTOR	2.2UH		
L1153	1-414-158-11	INDUCTOR	2.2UH		
L1326	1-414-183-41	INDUCTOR	10UH		
		< TRANSISTOR >			
Q1100	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R			
Q1101	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q1201	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q1202	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q1204	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q1226	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q1227	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q1229	8-729-027-38	TRANSISTOR DTA144EKA-T146			
Q1326	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q1327	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R			
Q1328	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q1329	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R			
Q1400	8-729-046-47	TRANSISTOR KSC2500-BTA			
Q1601	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q1626	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
		< RESISTOR >			
JR1069	1-216-190-91	RES, CHIP	470	5%	1/8W
JR1204	1-216-296-91	SHORT	0		
JR1601	1-216-296-91	SHORT	0		
R1001	1-216-295-91	SHORT	0		
R1002	1-216-295-91	SHORT	0		
R1003	1-216-295-91	SHORT	0		
R1004	1-216-295-91	SHORT	0		
R1005	1-216-295-91	SHORT	0		
R1006	1-216-295-91	SHORT	0		
R1100	1-216-025-91	RES,CHIP	100	5%	1/10W
R1101	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R1103	1-216-089-91	RES,CHIP	47K	5%	1/10W
R1104	1-216-296-91	SHORT	0		
R1126	1-216-631-11	METAL CHIP	150	0.50%	1/10W
R1127	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1128	1-216-041-00	RES,CHIP	470	5%	1/10W
R1151	1-216-631-11	METAL CHIP	150	0.50%	1/10W
R1152	1-216-075-00	RES,CHIP	12K	5%	1/10W

REF. NO.	PART.NO	DESCRIPTION			REMARK
R1153	1-216-041-00	RES,CHIP	470	5%	1/10W
R1176	1-216-063-91	RES,CHIP	3.9K	5%	1/10W
R1177	1-216-063-91	RES,CHIP	3.9K	5%	1/10W
R1178	1-216-357-00	METAL OXIDE	4.7	5%	1W F
R1179	1-216-357-00	METAL OXIDE	4.7	5%	1W F
R1180	1-216-081-00	RES,CHIP	22K	5%	1/10W
R1181	1-216-045-00	RES,CHIP	680	5%	1/10W
R1182	1-216-081-00	RES,CHIP	22K	5%	1/10W
R1183	1-216-045-00	RES,CHIP	680	5%	1/10W
R1184	1-216-089-91	RES,CHIP	47K	5%	1/10W
R1185	1-216-089-91	RES,CHIP	47K	5%	1/10W
R1201	1-216-089-91	RES,CHIP	47K	5%	1/10W
R1202	1-216-083-00	RES,CHIP	27K	5%	1/10W
R1203	1-216-083-00	RES,CHIP	27K	5%	1/10W
R1204	1-216-071-00	RES,CHIP	8.2K	5%	1/10W
R1205	1-216-089-91	RES,CHIP	47K	5%	1/10W
R1206	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1208	1-216-089-91	RES,CHIP	47K	5%	1/10W
R1209	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1210	1-216-089-91	RES,CHIP	47K	5%	1/10W
R1227	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1228	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1229	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1230	1-216-055-00	RES,CHIP	1.8K	5%	1/10W
R1232	1-216-295-91	SHORT	0		
R1233	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1326	1-216-025-91	RES,CHIP	100	5%	1/10W
R1327	1-216-025-91	RES,CHIP	100	5%	1/10W
R1328	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1329	1-216-025-91	RES,CHIP	100	5%	1/10W
R1330	1-216-041-00	RES,CHIP	470	5%	1/10W
R1331	1-216-041-00	RES,CHIP	470	5%	1/10W
R1332	1-216-041-00	RES,CHIP	470	5%	1/10W
R1333	1-216-075-00	RES,CHIP	12K	5%	1/10W
R1334	1-216-069-00	RES,CHIP	6.8K	5%	1/10W
R1335	1-216-025-91	RES,CHIP	100	5%	1/10W
R1336	1-216-041-00	RES,CHIP	470	5%	1/10W
R1337	1-216-041-00	RES,CHIP	470	5%	1/10W
R1338	1-216-001-00	RES,CHIP	10	5%	1/10W
R1339	1-216-041-00	RES,CHIP	470	5%	1/10W
R1340	1-216-043-91	RES,CHIP	560	5%	1/10W
R1342	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1400	1-216-053-00	RES,CHIP	1.5K	5%	1/10W
R1401	1-216-081-00	RES,CHIP	22K	5%	1/10W
R1403	1-216-295-91	SHORT	0		
R1404	1-216-295-91	SHORT	0		
R1405	1-216-025-91	RES,CHIP	100	5%	1/10W

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REF. NO.	PART.NO	DESCRIPTION			REMARK
R1407	1-216-025-91	RES,CHIP	100	5%	1/10W
R1408	1-216-025-91	RES,CHIP	100	5%	1/10W
R1409	1-216-025-91	RES,CHIP	100	5%	1/10W
R1410	1-216-025-91	RES,CHIP	100	5%	1/10W
R1411	1-216-295-91	SHORT	0		
R1412	1-216-295-91	SHORT	0		
R1601	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R1602	1-216-691-11	METAL CHIP	47K	0.50%	1/10W
R1603	1-216-025-91	RES,CHIP	100	5%	1/10W
R1605	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1609	1-216-089-91	RES,CHIP	47K	5%	1/10W
R1610	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1615	1-216-025-91	RES,CHIP	100	5%	1/10W
R1616	1-216-304-11	RES,CHIP	3.3	5%	1/10W
R1618	1-216-295-91	SHORT	0		
R1621	1-216-027-00	RES,CHIP	120	5%	1/10W
R1622	1-216-029-00	RES,CHIP	150	5%	1/10W
R1625	1-216-295-91	SHORT	0		
		< TUNER >			
TU1326	1-693-340-11	TUNER/VIF (FR)			

***A-1634-047-A M Board, Complete**

		< CAPACITOR >			
C9100	1-115-340-11	CERAMIC CHIP	0.22MF	10%	25V
C9101	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C9102	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C9104	1-104-664-11	ELECT	47MF	20%	25V
C9105	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C9110	1-165-321-11	CERAMIC CHIP	0.68MF	10%	16V
C9111	1-164-157-11	CERAMIC CHIP	0.068MF	10%	25V
C9112	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C9113	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C9114	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C9115	1-115-340-11	CERAMIC CHIP	0.22MF	10%	25V
C9117	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C9118	1-104-664-11	ELECT	47MF	20%	25V
C9119	1-163-259-91	CERAMIC CHIP	220PF	5%	50V
C9121	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C9122	1-115-340-11	CERAMIC CHIP	0.22MF	10%	25V
C9123	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C9124	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C9125	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C9126	1-163-105-00	CERAMIC CHIP	33PF	5%	50V
C9127	1-163-105-00	CERAMIC CHIP	33PF	5%	50V
C9128	1-163-105-00	CERAMIC CHIP	33PF	5%	50V
C9129	1-163-105-00	CERAMIC CHIP	33PF	5%	50V
C9130	1-163-105-00	CERAMIC CHIP	33PF	5%	50V
C9131	1-163-105-00	CERAMIC CHIP	33PF	5%	50V
C9132	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C9400	1-115-340-11	CERAMIC CHIP	0.22MF	10%	25V
C9500	1-104-664-11	ELECT	47MF	20%	25V
C9502	1-104-664-11	ELECT	47MF	20%	25V
C9503	1-126-964-11	ELECT	10MF	20%	50V
C9504	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C9505	1-104-665-11	ELECT	100MF	20%	25V
C9506	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C9507	1-115-340-11	CERAMIC CHIP	0.22MF	10%	25V
C9508	1-115-340-11	CERAMIC CHIP	0.22MF	10%	25V
C9509	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C9510	1-115-340-11	CERAMIC CHIP	0.22MF	10%	25V
C9511	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C9512	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C9513	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C9514	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C9515	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C9516	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C9517	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C9518	1-115-340-11	CERAMIC CHIP	0.22MF	10%	25V
C9519	1-126-964-11	ELECT	10MF	20%	50V
C9520	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
		< CONNECTOR >			
CN9101	1-695-301-11	CONNECTOR, BOARD TO BOARD 40P			
		< DIODE >			
D9100	8-719-988-61	DIODE 1SS355TE-17			
D9101	8-719-988-61	DIODE 1SS355TE-17			
D9102	8-719-988-61	DIODE 1SS355TE-17			
D9103	8-719-988-61	DIODE 1SS355TE-17			
D9104	8-719-069-57	DIODE UDZS-TE17-6.8B			
D9105	8-719-914-43	DIODE DAN202K			
D9109	8-719-105-91	DIODE RD5.6M-B2			
		< FILTER >			
FL9101	1-236-071-11	ENCAPSULATED COMPONENT			
FL9500	1-236-071-11	ENCAPSULATED COMPONENT			
FL9501	1-236-071-11	ENCAPSULATED COMPONENT			
		< IC >			
IC9100	8-759-988-13	IC LM393PS			
IC9104	8-759-259-18	IC MB3793-42PNF			
IC9105	8-759-544-30	IC SAB-C161R1-LM			

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REF. NO.	PART.NO	DESCRIPTION	REMARK
IC9107	8-759-395-27	IC TC55257DFTL-70V	
IC9108	8-759-531-64	IC M24C32-BN6	
IC9109	8-759-597-97	IC M27C800-100K1-AE515	
IC9110	8-759-559-96	IC HEF4094BT	
IC9500	8-759-034-47	IC MC74F00M-T2	
IC9501	8-759-483-52	IC HYB514400BJ-60	
IC9502	8-759-438-62	IC SDA5275	
		< COIL >	
L9400	1-412-029-11	INDUCTOR CHIP 10UH	
L9401	1-412-029-11	INDUCTOR CHIP 10UH	
		< TRANSISTOR >	
Q9100	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q9101	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q9102	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q9103	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q9105	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q9106	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q9107	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q9108	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q9109	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q9110	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q9500	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q9501	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q9502	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q9503	1-801-806-11	TRANSISTOR DTC144EKA	
Q9504	1-801-806-11	TRANSISTOR DTC144EKA	
		< RESISTOR >	
R9100	1-216-073-00	RES,CHIP 10K 5% 1/10W	
R9101	1-216-033-00	RES,CHIP 220 5% 1/10W	
R9102	1-216-033-00	RES,CHIP 220 5% 1/10W	
R9103	1-216-025-91	RES,CHIP 100 5% 1/10W	
R9104	1-216-073-00	RES,CHIP 10K 5% 1/10W	
R9105	1-216-073-00	RES,CHIP 10K 5% 1/10W	
R9107	1-216-025-91	RES,CHIP 100 5% 1/10W	
R9108	1-216-025-91	RES,CHIP 100 5% 1/10W	
R9109	1-216-073-00	RES,CHIP 10K 5% 1/10W	
R9110	1-216-081-00	RES,CHIP 22K 5% 1/10W	
R9111	1-216-025-91	RES,CHIP 100 5% 1/10W	
R9112	1-216-025-91	RES,CHIP 100 5% 1/10W	
R9113	1-216-033-00	RES,CHIP 220 5% 1/10W	
R9114	1-216-083-00	RES,CHIP 27K 5% 1/10W	
R9115	1-216-081-00	RES,CHIP 22K 5% 1/10W	
R9116	1-216-073-00	RES,CHIP 10K 5% 1/10W	
R9117	1-216-073-00	RES,CHIP 10K 5% 1/10W	

REF. NO.	PART.NO	DESCRIPTION	REMARK
R9119	1-216-073-00	RES,CHIP 10K 5% 1/10W	
R9120	1-216-073-00	RES,CHIP 10K 5% 1/10W	
R9121	1-216-017-91	RES,CHIP 47 5% 1/10W	
R9122	1-216-049-91	RES,CHIP 1K 5% 1/10W	
R9123	1-216-073-00	RES,CHIP 10K 5% 1/10W	
R9127	1-216-049-91	RES,CHIP 1K 5% 1/10W	
R9138	1-216-049-91	RES,CHIP 1K 5% 1/10W	
R9140	1-216-057-00	RES,CHIP 2.2K 5% 1/10W	
R9141	1-216-049-91	RES,CHIP 1K 5% 1/10W	
R9142	1-216-041-00	RES,CHIP 470 5% 1/10W	
R9143	1-216-049-91	RES,CHIP 1K 5% 1/10W	
R9144	1-216-057-00	RES,CHIP 2.2K 5% 1/10W	
R9145	1-216-049-91	RES,CHIP 1K 5% 1/10W	
R9146	1-216-049-91	RES,CHIP 1K 5% 1/10W	
R9147	1-216-049-91	RES,CHIP 1K 5% 1/10W	
R9148	1-216-073-00	RES,CHIP 10K 5% 1/10W	
R9149	1-216-025-91	RES,CHIP 100 5% 1/10W	
R9150	1-216-025-91	RES,CHIP 100 5% 1/10W	
R9151	1-216-025-91	RES,CHIP 100 5% 1/10W	
R9153	1-216-025-91	RES,CHIP 100 5% 1/10W	
R9159	1-216-069-00	RES,CHIP 6.8K 5% 1/10W	
R9161	1-216-069-00	RES,CHIP 6.8K 5% 1/10W	
R9162	1-216-069-00	RES,CHIP 6.8K 5% 1/10W	
R9164	1-216-069-00	RES,CHIP 6.8K 5% 1/10W	
R9166	1-216-073-00	RES,CHIP 10K 5% 1/10W	
R9168	1-216-069-00	RES,CHIP 6.8K 5% 1/10W	
R9169	1-216-069-00	RES,CHIP 6.8K 5% 1/10W	
R9172	1-216-069-00	RES,CHIP 6.8K 5% 1/10W	
R9173	1-216-295-91	SHORT 0	
R9174	1-216-025-91	RES,CHIP 100 5% 1/10W	
R9175	1-216-025-91	RES,CHIP 100 5% 1/10W	
R9176	1-216-025-91	RES,CHIP 100 5% 1/10W	
R9177	1-216-025-91	RES,CHIP 100 5% 1/10W	
R9178	1-216-025-91	RES,CHIP 100 5% 1/10W	
R9184	1-216-025-91	RES,CHIP 100 5% 1/10W	
R9185	1-216-025-91	RES,CHIP 100 5% 1/10W	
R9186	1-216-025-91	RES,CHIP 100 5% 1/10W	
R9187	1-216-065-91	RES,CHIP 4.7K 5% 1/10W	
R9188	1-216-025-91	RES,CHIP 100 5% 1/10W	
R9189	1-216-025-91	RES,CHIP 100 5% 1/10W	
R9190	1-216-025-91	RES,CHIP 100 5% 1/10W	
R9191	1-216-025-91	RES,CHIP 100 5% 1/10W	
R9192	1-216-025-91	RES,CHIP 100 5% 1/10W	
R9193	1-216-097-91	RES,CHIP 100K 5% 1/10W	
R9194	1-216-097-91	RES,CHIP 100K 5% 1/10W	
R9195	1-216-097-91	RES,CHIP 100K 5% 1/10W	
R9196	1-216-073-00	RES,CHIP 10K 5% 1/10W	

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M C

REF. NO.	PART.NO	DESCRIPTION			REMARK
R9197	1-216-073-00	RES,CHIP	10K	5%	1/10W
R9500	1-216-295-91	SHORT	0		
R9501	1-216-295-91	SHORT	0		
R9502	1-216-295-91	SHORT	0		
R9504	1-216-041-00	RES,CHIP	470	5%	1/10W
R9505	1-216-051-00	RES,CHIP	1.2K	5%	1/10W
R9506	1-216-073-00	RES,CHIP	10K	5%	1/10W
R9507	1-216-097-91	RES,CHIP	100K	5%	1/10W
R9508	1-216-017-91	RES,CHIP	47	5%	1/10W
R9509	1-216-049-91	RES,CHIP	1K	5%	1/10W
R9510	1-216-017-91	RES,CHIP	47	5%	1/10W
R9511	1-216-049-91	RES,CHIP	1K	5%	1/10W
R9512	1-216-017-91	RES,CHIP	47	5%	1/10W
R9513	1-216-017-91	RES,CHIP	47	5%	1/10W
R9514	1-216-017-91	RES,CHIP	47	5%	1/10W
R9515	1-216-295-91	SHORT	0		
R9516	1-216-295-91	SHORT	0		
R9517	1-216-295-91	SHORT	0		
R9518	1-216-049-91	RES,CHIP	1K	5%	1/10W
R9519	1-216-039-00	RES,CHIP	390	5%	1/10W
R9520	1-216-039-00	RES,CHIP	390	5%	1/10W
R9521	1-216-039-00	RES,CHIP	390	5%	1/10W
R9522	1-216-295-91	SHORT	0		
R9523	1-216-295-91	SHORT	0		
R9524	1-216-295-91	SHORT	0		
R9525	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R9526	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R9527	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R9528	1-216-025-91	RES,CHIP	100	5%	1/10W
R9529	1-216-025-91	RES,CHIP	100	5%	1/10W
R9530	1-216-025-91	RES,CHIP	100	5%	1/10W
R9531	1-216-295-91	SHORT	0		
		< CRYSTAL >			
X9101	1-781-107-21	VIBRATOR, SERAMIC			
X9500	1-760-551-21	VIBRATOR, CERAMIC			

***A-1638-132-A C Board, Complete**

4-382-854-11 SCREW (M3X10), P, SW (+)

< CAPACITOR >

C5301	1-102-129-00	CERAMIC	0.01MF	10%	50V
C5302	1-128-528-11	ELECT	470MF	20%	16V
C5304	1-107-666-11	ELECT	1MF	20%	350V
C5305	1-136-207-11	FILM	0.047MF	10%	400V
C5306	1-102-157-00	CERAMIC	560PF	10%	500V
C5325	1-102-959-91	CERAMIC	22PF	5%	50V
C5326	1-102-157-00	CERAMIC	560PF	10%	500V
C5327	1-102-129-00	CERAMIC	0.01MF	10%	50V
C5328	1-128-528-11	ELECT	470MF	20%	16V
C5329	1-107-967-11	ELECT	1MF	20%	400V
C5350	1-107-907-11	ELECT	22MF	20%	50V
C5352	1-102-157-00	CERAMIC	560PF	10%	500V
C5353	1-102-129-00	CERAMIC	0.01MF	10%	50V
C5354	1-128-528-11	ELECT	470MF	20%	16V
C5355	1-107-666-11	ELECT	1MF	20%	350V
C5356	1-136-207-11	FILM	0.047MF	10%	400V
C5375	1-107-902-11	ELECT	1MF	20%	50V
C5377	1-162-115-00	CERAMIC	330PF	10%	2KV
C5378	1-162-116-00	CERAMIC	680PF	10%	2KV
C5379	1-162-114-00	CERAMIC	0.0047MF		2KV
C5380	1-107-652-11	ELECT	10MF	20%	250V
C5381	1-162-116-00	CERAMIC	680PF	10%	2KV
C5382	1-162-114-00	CERAMIC	0.0047MF		2KV

< CONNECTOR >

CN5400	*1-564-511-11	PLUG, CONNECTOR 8P
CN5511	1-695-915-11	TAB (CONTACT)
CN5600	1-508-766-00	PIN, CONNECTOR (5MM PITCH) 4P

< DIODE >

D5300	8-719-911-19	DIODE 1SS119-25
D5302	8-719-901-83	DIODE 1SS83
D5325	8-719-911-19	DIODE 1SS119-25
D5326	8-719-923-60	DIODE MTZJ-T-77-9.1A
D5327	8-719-901-83	DIODE 1SS83
D5350	8-719-911-19	DIODE 1SS119-25
D5351	8-719-991-33	DIODE 1SS133T-77
D5353	8-719-901-83	DIODE 1SS83
D5375	8-719-991-33	DIODE 1SS133T-77
D5376	8-719-991-33	DIODE 1SS133T-77
D5377	8-719-908-03	DIODE GP08D
D5378	8-719-921-88	DIODE MTZJ-13B
D5379	8-719-982-96	DIODE MTZJ-T-77-2.2A
D5380	8-719-982-96	DIODE MTZJ-T-77-2.2A
D5381	8-719-031-34	DIODE RGP02-20EG23

< IC >

IC5300	8-759-360-83	IC TDA6111Q/N4
IC5325	8-759-360-83	IC TDA6111Q/N4
IC5350	8-759-360-83	IC TDA6111Q/N4

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The components identified by shading and marked ⚠ are critical for safety
Replace only with the part number specified.

C D

REF. NO.		PART.NO	DESCRIPTION				REMARK
			< SOCKET >				
J5375	⚠	1-540-071-22	SOCKET, CRT				
			< COIL >				
L5300		1-414-932-21	INDUCTOR	4.7UH			
L5325		1-414-932-21	INDUCTOR	4.7UH			
L5350		1-414-932-21	INDUCTOR	4.7UH			
L5375		1-414-938-21	INDUCTOR	47UH			
L5376		1-532-637-00	LINK, IC 1A (ICP-F25)				
L5377		1-414-183-41	INDUCTOR	10UH			
			< TRANSISTOR >				
Q5300		8-729-255-12	TRANSISTOR 2SC2551-O				
Q5325		8-729-255-12	TRANSISTOR 2SC2551-O				
Q5350		8-729-029-56	TRANSISTOR DTA144ESA				
Q5351		8-729-255-12	TRANSISTOR 2SC2551-O				
Q5375		8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q5376		8-729-026-39	TRANSISTOR 2SA933AS-QT				
			< RESISTOR >				
R5300		1-249-417-11	CARBON	1K	5%	1/4W	
R5301		1-249-413-11	CARBON	470	5%	1/4W	
R5302		1-249-408-11	CARBON	180	5%	1/4W	
R5303		1-249-417-11	CARBON	1K	5%	1/4W	
R5304		1-202-565-00	SOLID	470	20%	1/2W	
R5305		1-215-926-00	METAL OXIDE	33K	5%	3W	F
R5306		1-249-424-11	CARBON	3.9K	5%	1/4W	
R5307		1-247-863-91	CARBON	22K	5%	1/4W	
R5325		1-249-417-11	CARBON	1K	5%	1/4W	
R5326		1-249-413-11	CARBON	470	5%	1/4W	
R5327		1-249-408-11	CARBON	180	5%	1/4W	
R5328		1-249-417-11	CARBON	1K	5%	1/4W	
R5329		1-202-565-00	SOLID	470	20%	1/2W	
R5330		1-215-926-00	METAL OXIDE	33K	5%	3W	F
R5331		1-249-424-11	CARBON	3.9K	5%	1/4W	
R5332		1-247-863-91	CARBON	22K	5%	1/4W	
R5350		1-249-417-11	CARBON	1K	5%	1/4W	
R5351		1-249-413-11	CARBON	470	5%	1/4W	
R5352		1-249-416-11	CARBON	820	5%	1/4W	
R5353		1-249-421-11	CARBON	2.2K	5%	1/4W	
R5354		1-249-418-11	CARBON	1.2K	5%	1/4W	
R5355		1-249-408-11	CARBON	180	5%	1/4W	
R5356		1-249-417-11	CARBON	1K	5%	1/4W	
R5357		1-202-565-00	SOLID	470	20%	1/2W	
R5358		1-215-926-00	METAL OXIDE	33K	5%	3W	F
R5359		1-247-863-91	CARBON	22K	5%	1/4W	
R5360		1-249-424-11	CARBON	3.9K	5%	1/4W	
R5361		1-249-431-11	CARBON	15K	5%	1/4W	
R5375		1-249-435-11	CARBON	33K	5%	1/4W	
R5376		1-249-429-11	CARBON	10K	5%	1/4W	
R5377		1-249-430-11	CARBON	12K	5%	1/4W	
R5378		1-249-429-11	CARBON	10K	5%	1/4W	
R5379		1-249-438-11	CARBON	56K	5%	1/4W	
R5380		1-247-863-91	CARBON	22K	5%	1/4W	
R5381		1-249-420-11	CARBON	1.8K	5%	1/4W	
R5382		1-202-549-00	SOLID	100	20%	1/2W	
R5383		1-216-399-00	METAL OXIDE	6.8	5%	3W	F
R5384		1-216-399-00	METAL OXIDE	6.8	5%	3W	F
R5385		1-202-549-00	SOLID	100	20%	1/2W	
R5386		1-202-884-11	SOLID	820K	20%	1/2W	
R5387		1-202-884-11	SOLID	820K	20%	1/2W	
R5388		1-215-911-11	METAL OXIDE	100	5%	3W	F
R5389		1-249-417-11	CARBON	1K	5%	1/4W	F
			< VARIABLE RESISTOR >				
RV5375		1-241-656-21	RES, ADJ, METAL FILM 110M				
RV5376		1-230-641-11	RES, ADJ, METAL GLAZE 2.2M				

*A-1640-328-A	D Board, Complete (KV-28FC60/28FC60/Z)
*A-1640-323-A	D Board, Complete (KV-32FC60/32FC60/Z)

D Board Common Parts

		4-201-023-01	SPACER, INSULATING			
		4-202-373-01	SPRING, IC			
		4-382-854-11	SCREW (M3X10), P, SW (+)			
		*4-931-401-01	HEAT SINK, V.OUT			
			< CAPACITOR >			
C6600	⚠	1-162-580-51	CERAMIC	0.01MF		400V
C6603		1-126-933-11	ELECT	100MF	20%	16V
C6604		1-126-767-11	ELECT	1000MF	20%	16V
C6605	⚠	1-119-888-51	CERAMIC	2200PF	20%	250V
C6606	⚠	1-119-888-51	CERAMIC	2200PF	20%	250V
C6607	⚠	1-136-518-12	FILM	0.33MF	20%	300V
C6608	⚠	1-161-964-91	CERAMIC	0.0047MF		250V
C6609	⚠	1-161-964-91	CERAMIC	0.0047MF		250V
C6610	⚠	1-162-599-12	CERAMIC	0.0047MF		250V
C6611	⚠	1-162-599-12	CERAMIC	0.0047MF		250V
C6612		1-161-744-00	CERAMIC	0.01MF		400V
C6616		1-164-625-11	CERAMIC	680PF	10%	500V
C6617		1-164-625-11	CERAMIC	680PF	10%	500V

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REF. NO.	PART.NO	DESCRIPTION			REMARK
C6618	1-136-175-00	FILM	0.68MF	5%	50V
C6619	1-137-194-91	FILM	0.47MF	5%	50V
C6620	1-136-618-11	FILM	0.047MF	5%	1.25KV
C6621	1-136-175-00	FILM	0.68MF	5%	50V
C6622	1-164-625-11	CERAMIC	680PF	10%	500V
C6623	1-137-194-91	FILM	0.47MF	5%	50V
C6624	1-126-968-11	ELECT	100MF	20%	50V
C6626	1-164-625-11	CERAMIC	680PF	10%	500V
C6627	1-164-625-11	CERAMIC	680PF	10%	500V
C6628	1-126-936-11	ELECT	3300MF	20%	16V
C6629	1-128-548-11	ELECT	4700MF	20%	25V
C6630	1-110-626-11	ELECT	330MF	20%	160V
C6631	1-126-955-11	ELECT	4700MF	20%	35V
C6632	1-126-955-11	ELECT	4700MF	20%	35V
C6634	1-136-165-00	FILM	0.1MF	5%	50V
C6635	1-104-664-11	ELECT	47MF	20%	25V
C6636	1-102-129-00	CERAMIC	0.01MF	10%	50V
C6637	1-102-129-00	CERAMIC	0.01MF	10%	50V
C6638	1-137-368-11	FILM	0.0047MF	5%	50V
C6639	1-102-228-00	CERAMIC	470PF	10%	500V
C6641	1-126-967-11	ELECT	47MF	20%	50V
C6642	1-126-964-11	ELECT	10MF	20%	50V
C6647	1-104-664-11	ELECT	47MF	20%	25V
C6649	1-126-965-11	ELECT	22MF	20%	50V
C6651	1-162-599-12	CERAMIC	0.0047MF		250V
C6652	1-107-679-91	ELECT	10MF	20%	450V
C6653	1-126-968-11	ELECT	100MF	20%	50V
C6654	1-162-117-00	CERAMIC	100PF	10%	500V
C6655	1-107-974-11	CERAMIC	47PF	5%	2KV
C6656	1-126-967-11	ELECT	47MF	20%	50V
C6657	1-126-941-11	ELECT	470MF	20%	25V
C6658	1-104-665-11	ELECT	100MF	20%	25V
C6659	1-104-665-11	ELECT	100MF	20%	25V
C6661	1-117-753-11	ELECT(BLOCK)	470MF	20%	450V
C6662	1-136-165-00	FILM	0.1MF	5%	50V
C6664	1-136-153-00	FILM	0.01MF	5%	50V
C6665	1-136-165-00	FILM	0.1MF	5%	50V
C6666	1-136-165-00	FILM	0.1MF	5%	50V
C6667	1-126-933-11	ELECT	100MF	20%	16V
C6668	1-126-933-11	ELECT	100MF	20%	16V
C6669	1-136-165-00	FILM	0.1MF	5%	50V
C6670	1-136-165-00	FILM	0.1MF	5%	50V
C6671	1-104-664-11	ELECT	47MF	20%	16V
C6672	1-104-664-11	ELECT	47MF	20%	16V
C6677	1-136-165-00	FILM	0.1MF	5%	50V
C6679	1-130-495-00	FILM	0.1MF	5%	50V
C6680	1-137-370-11	FILM	0.01MF	5%	50V
C6681	1-126-964-11	ELECT	10MF	20%	50V
C6682	1-107-679-91	ELECT	10MF	20%	450V
C6700	1-102-129-00	CERAMIC	0.01MF	10%	50V
C6703	1-128-527-11	ELECT	330MF	20%	25V
C6704	1-126-968-11	ELECT	100MF	20%	50V
C6705	1-128-527-11	ELECT	330MF	20%	25V
C6706	1-106-228-00	MYLAR	0.22MF	10%	100V
C6707	1-129-702-00	FILM	0.001MF	10%	400V
C6708	1-106-220-00	MYLAR	0.1MF	10%	100V
C6709	1-102-129-00	CERAMIC	0.01MF	10%	50V
C6710	1-130-785-11	MYLAR	0.47MF	10%	100V
C6727	1-102-228-00	CERAMIC	470PF	10%	500V
C6801	1-104-664-11	ELECT	47MF	20%	25V
C6802	1-126-960-11	ELECT	1MF	20%	50V
C6803	1-126-960-11	ELECT	1MF	20%	50V
C6804	1-102-114-00	CERAMIC	470PF	10%	50V
C6805	1-102-114-00	CERAMIC	470PF	10%	50V
C6808	1-102-030-00	CERAMIC	330PF	10%	500V
C6809	1-102-030-00	CERAMIC	330PF	10%	500V
C6810	1-107-368-11	FILM	0.047MF	10%	200V
C6811	1-107-368-11	FILM	0.047MF	10%	200V
C6812	1-162-131-11	CERAMIC	220PF	10%	2KV
C6813	1-162-134-11	CERAMIC	470PF	10%	2KV
C6816	1-130-471-00	FILM	0.001MF	5%	50V
C6817	1-125-893-11	FILM	680PF	3%	1.5KV
C6818	1-125-893-11	FILM	680PF	3%	1.5KV
C6819	1-125-893-11	FILM	680PF	3%	1.5KV
C6820	1-125-893-11	FILM	680PF	3%	1.5KV
C6824	1-107-846-11	FILM	0.1MF	5%	250V
C6827	1-107-846-11	FILM	0.1MF	5%	250V
C6828	1-127-681-11	FILM MELF	10000PF	2%	100V
C6829	1-127-680-11	FILM MELF	4700PF	2%	100V
C6830	1-107-655-11	ELECT	47MF	20%	250V
C6831	1-102-228-00	CERAMIC	470PF	10%	500V
C6832	1-126-941-11	ELECT	470MF	20%	25V
C6833	1-126-941-11	ELECT	470MF	20%	25V
C6834	1-102-228-00	CERAMIC	470PF	10%	500V
C6835	1-102-228-00	CERAMIC	470PF	10%	500V
C6836	1-123-024-21	ELECT	33MF		160V
C6837	1-106-375-12	MYLAR	0.022MF	10%	250V
C6840	1-137-370-11	FILM	0.01MF	5%	50V
C6841	1-104-664-11	ELECT	47MF	20%	16V
C6844	1-115-513-21	FILM	0.18MF	5%	250V
C6851	1-162-131-11	CERAMIC	220PF	10%	2KV
C6852	1-162-129-00	CERAMIC	150PF	10%	2KV
C6853	1-137-536-11	FILM	0.0022MF	5%	630V
C6855	1-136-205-11	FILM	0.022MF	10%	400V

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REF. NO.	PART.NO	DESCRIPTION	REMARK
C6856	1-102-030-00	CERAMIC 330PF 10% 500V	
C6857	1-130-785-11	FILM 0.47MF 10% 100V	
C6861	1-130-471-00	FILM 0.001MF 5% 50V	
C6862	1-130-471-00	FILM 0.001MF 5% 50V	
		< CONNECTOR >	
CN6100	1-785-802-11	CONNECTOR, 20 PIN	
CN6101	1-785-802-11	CONNECTOR, 20 PIN	
CN6102	1-785-802-11	CONNECTOR, 20 PIN	
CN6500	1-508-766-00	PIN, CONNECTOR (5MM PITCH) 4P	
CN6600	1-695-299-11	CONNECTOR, BOARD TO BOARD 50P	
CN6611	*1-785-270-12	PIN, DY CONNECTOR (PC BOARD)	
CN6620 ⚠	1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P	
CN6622	1-695-915-11	TAB (CONTACT)	
CN6666 ⚠	*1-508-786-00	PIN, CONNECTOR (5MM PITCH) 2P	
CN6700 ⚠	*1-691-291-11	PIN, CONNECTOR (PC BOARD) 5P	
		< DIODE >	
D6600	8-719-911-19	DIODE 1SS119-25	
D6601	8-719-063-73	DIODE D1NL20U-TR	
D6602	8-719-109-89	DIODE RD5.6ESB2	
D6603	8-719-911-19	DIODE 1SS119-25	
D6604	8-719-510-53	DIODE D4SB60L	
D6605	8-719-991-33	DIODE 1SS133T-77	
D6610	8-719-063-73	DIODE D1NL20U-TR	
D6613	8-719-911-19	DIODE 1SS119-25	
D6615	8-719-911-19	DIODE 1SS119-25	
D6616	8-719-510-12	DIODE D10SC4M	
D6617	8-719-500-71	DIODE D8LC40	
D6618	8-719-047-31	DIODE RBA-402L	
D6619	8-719-510-12	DIODE D10SC4M	
D6621	8-719-991-33	DIODE 1SS133T-77	
D6622	8-719-991-33	DIODE 1SS133T-77	
D6623	8-719-911-19	DIODE 1SS119-25	
D6624	8-719-991-33	DIODE 1SS133T-77	
D6625	8-719-991-33	DIODE 1SS133T-77	
D6626	8-719-991-33	DIODE 1SS133T-77	
D6627	8-719-982-27	DIODE MTZJ-33C	
D6628	8-719-109-97	DIODE RD6.8ESB2	
D6629	8-719-991-33	DIODE 1SS133T-77	
D6630	8-719-991-33	DIODE 1SS133T-77	
D6631	8-719-991-33	DIODE 1SS133T-77	
D6651	8-719-068-00	DIODE ERC04-06SE	
D6652	8-719-923-78	DIODE MTZJ-T-77-12	
D6653	8-719-063-73	DIODE D1NL20U-TR	
D6654	8-719-059-23	DIODE P6KE200AG23	
D6655	8-719-979-64	DIODE UF4005PKG23	
D6656	8-719-063-73	DIODE D1NL20U-TR	
D6658	8-719-068-00	DIODE ERC04-06SE	
D6659	8-719-063-73	DIODE D1NL20U-TR	
D6676	8-719-991-33	DIODE 1SS133T-77	
D6677	8-719-921-40	DIODE MTZJ-4.7C	
D6678	8-719-921-40	DIODE MTZJ-4.7C	
D6679	8-719-991-33	DIODE 1SS133T-77	
D6681	8-719-991-33	DIODE 1SS133T-77	
D6700	8-719-200-02	DIODE ERA15-02	
D6701	8-719-110-41	DIODE RD15ESB2	
D6803	8-719-200-02	DIODE ERA15-02	
D6804	1-535-143-11	LEAD, JUMPER (10.0MM)	
D6805	8-719-302-43	DIODE EL1Z	
D6806	8-719-979-85	DIODE EGP20G	
D6807	8-719-510-73	DIODE S3L20UF4	
D6808	8-719-510-73	DIODE S3L20UF4	
D6809	8-719-991-33	DIODE 1SS133T-77	
D6810	1-247-895-91	CARBON 470K 5% 1/4W	
D6811	8-719-110-41	DIODE RD15ESB2	
D6851	8-719-970-87	DIODE ERA38-06	
D6852	8-719-970-87	DIODE ERA38-06	
		< FERRITE BEAD >	
FB6602	1-410-396-41	FERRITE 0.45UH	
FB6603	1-410-396-41	FERRITE 0.45UH	
		< IC >	
IC6600	1-810-051-11	POWER MODULE DM-48	
IC6604	8-729-045-40	TRANSISTOR MX0842A-F	
IC6651	8-759-468-89	IC TOP209P	
IC6652	8-759-394-35	IC BA12T	
IC6653	8-759-544-13	IC KA78R09TU	
IC6654	8-759-574-76	IC KA78R05-SYDTU	
IC6667	8-759-908-15	IC TL431CLP	
IC6676	8-759-908-15	IC TL431CLP	
IC6700	8-759-192-71	IC STV9379	
IC6801	8-759-103-93	IC UPC393C	
		< COIL >	
L6604	1-412-525-31	INDUCTOR 10UH	
L6605	1-412-523-41	INDUCTOR 6.8UH	
L6606	1-412-525-31	INDUCTOR 10UH	
L6651	1-414-183-41	INDUCTOR 10UH	
L6700	1-412-524-11	INDUCTOR 8.2UH	
L6801	1-412-519-11	INDUCTOR 3.3UH	
L6802	1-412-519-11	INDUCTOR 3.3UH	
L6803	1-412-533-21	INDUCTOR 47UH	
L6805	1-408-947-00	INDUCTOR 2.2MMH	
L6806	1-410-397-21	FERRITE 1.1UH	

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REF. NO.		PART.NO	DESCRIPTION			REMARK
L6807		1-410-397-21	FERRITE	1.1UH		
L6851		1-535-303-00	LEAD, JUMPER	(5.0MM)		
			< FILTER >			
LF6603		1-406-659-11	INDUCTOR	10UH		
LF6604		1-406-659-11	INDUCTOR	10UH		
LF6801		1-406-985-11	INDUCTOR	2.2MMH		
LF6851		1-406-674-11	INDUCTOR	3.3MMH		
			< IC LINK >			
PS6601	⚠	1-801-550-21	PROTECTOR, MODULE 2.5A MP250			
PS6602	⚠	1-801-550-21	PROTECTOR, MODULE 2.5A MP250			
PS6603	⚠	1-801-549-21	PROTECTOR, MODULE 2.5A MP250			
PS6604	⚠	1-801-550-21	PROTECTOR, MODULE 2.5A MP250			
			< TRANSISTOR >			
Q6600		8-729-046-47	TRANSISTOR KSC2500-BTA			
Q6602		8-729-026-39	TRANSISTOR 2SA933AS-QT			
Q6603		8-729-119-78	TRANSISTOR 2SC2785-HFE			
Q6605		8-729-046-47	TRANSISTOR KSC2500-BTA			
Q6606		8-729-029-56	TRANSISTOR DTA144ESA			
Q6607		8-729-119-78	TRANSISTOR 2SC2785-HFE			
Q6608		8-729-029-66	TRANSISTOR DTC114ESA			
Q6611		8-729-029-66	TRANSISTOR DTC114ESA			
Q6651		8-729-026-39	TRANSISTOR 2SA933AS-QT			
Q6652		8-729-029-86	TRANSISTOR DTC124ESA			
Q6667		8-729-026-39	TRANSISTOR 2SA933AS-QT			
Q6676		8-729-119-78	TRANSISTOR 2SC2785-HFE			
Q6677		8-729-119-78	TRANSISTOR 2SC2785-HFE			
Q6678		8-729-119-78	TRANSISTOR 2SC2785-HFE			
Q6679		8-729-026-39	TRANSISTOR 2SA933AS-QT			
Q6680		8-729-029-66	TRANSISTOR DTC114ESA			
Q6681		8-729-029-66	TRANSISTOR DTC114ESA			
Q6700		8-729-039-68	TRANSISTOR IRF620			
Q6801		8-729-119-80	TRANSISTOR 2SC2688-LK			
Q6802		8-729-119-80	TRANSISTOR 2SC2688-LK			
Q6803		8-729-046-18	TRANSISTOR 2SC5480-01			
Q6804		8-729-046-18	TRANSISTOR 2SC5480-01			
Q6805		8-729-038-83	TRANSISTOR 2SK2251-01-F19			
Q6806		8-729-047-59	TRANSISTOR STP5NB40FP			
Q6807		8-729-030-02	TRANSISTOR DTC144ESA			
Q6851		8-729-043-95	TRANSISTOR 2SC3840(3)			
			< RESISTOR >			
R6601	⚠	1-202-968-11	CEMENTED	1.2	5%	10W
R6602		1-247-863-91	CARBON	22K	5%	1/4W
R6603		1-249-430-11	CARBON	12K	5%	1/4W
R6604		1-249-421-11	CARBON	2.2K	5%	1/4W
R6605		1-249-417-11	CARBON	1K	5%	1/4W F
R6606	⚠	1-202-968-11	CEMENTED	1.2	5%	10W
R6608	⚠	1-220-797-11	CEMENTED	0.47	5%	10W F
R6611		1-260-125-11	CARBON	150K	5%	1/2W
R6612		1-260-125-11	CARBON	150K	5%	1/2W
R6613		1-216-369-00	METAL OXIDE	1	5%	2W F
R6614		1-260-125-11	CARBON	150K	5%	1/2W
R6615		1-260-125-11	CARBON	150K	5%	1/2W
R6616		1-216-369-00	METAL OXIDE	1	5%	2W F
R6619		1-249-425-11	CARBON	4.7K	5%	1/4W
R6620		1-249-443-11	CARBON	0.47	5%	1/4W F
R6624		1-249-425-11	CARBON	4.7K	5%	1/4W
R6625		1-249-429-11	CARBON	10K	5%	1/4W
R6626		1-247-807-31	CARBON	100	5%	1/4W
R6627		1-249-429-11	CARBON	10K	5%	1/4W
R6628		1-260-129-11	CARBON	330K	5%	1/2W
R6629		1-260-129-11	CARBON	330K	5%	1/2W
R6630		1-249-417-11	CARBON	1K	5%	1/4W
R6631		1-249-425-11	CARBON	4.7K	5%	1/4W
R6632		1-207-905-00	WIREWOUND	0.27	10%	2W F
R6633		1-249-429-11	CARBON	10K	5%	1/4W
R6635		1-535-303-00	LEAD, JUMPER	(5.0MM)		
R6637		1-249-421-11	CARBON	2.2K	5%	1/4W
R6638		1-247-895-91	CARBON	470K	5%	1/4W
R6639		1-249-416-11	CARBON	820	5%	1/4W
R6640		1-249-417-11	CARBON	1K	5%	1/4W
R6641		1-260-127-11	CARBON	220K	5%	1/2W
R6642		1-249-389-11	CARBON	4.7	5%	1/4W F
R6643		1-249-417-11	CARBON	1K	5%	1/4W F
R6644		1-249-429-11	CARBON	10K	5%	1/4W
R6645		1-260-131-11	CARBON	470K	5%	1/2W
R6646		1-249-429-11	CARBON	10K	5%	1/4W
R6647		1-249-410-11	CARBON	270	5%	1/4W
R6648		1-247-863-91	CARBON	22K	5%	1/4W
R6649		1-215-926-00	METAL OXIDE	33K	5%	3W F
R6651		1-247-791-91	CARBON	22	5%	1/4W
R6652		1-249-389-11	CARBON	4.7	5%	1/4W F
R6653		1-249-421-11	CARBON	2.2K	5%	1/4W
R6655		1-249-429-11	CARBON	10K	5%	1/4W
R6656	⚠	1-218-265-11	METAL	8.2M	5%	1W
R6657		1-215-421-00	METAL	1K	1%	1/4W
R6666		1-202-933-61	FUSIBLE	0.1	10%	1/2W F
R6667		1-215-441-00	METAL	6.8K	1%	1/4W
R6668		1-249-429-11	CARBON	10K	5%	1/4W
R6669		1-249-413-11	CARBON	470	5%	1/4W
R6676		1-249-417-11	CARBON	1K	5%	1/4W

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The components identified by shading and marked ⚠ are critical for safety
Replace only with the part number specified.

D

REF. NO.	PART.NO	DESCRIPTION				REMARK
R6677	1-249-417-11	CARBON	1K	5%	1/4W	
R6678	1-249-417-11	CARBON	1K	5%	1/4W	
R6679	1-215-479-00	METAL	270K	1%	1/4W	
R6681	1-215-467-00	METAL	82K	1%	1/4W	
R6682	1-215-447-00	METAL	12K	1%	1/4W	
R6683	1-215-429-00	METAL	2.2K	1%	1/4W	
R6684	1-247-807-31	CARBON	100	5%	1/4W	
R6685	1-249-417-11	CARBON	1K	5%	1/4W	
R6686	1-215-449-00	METAL	15K	1%	1/4W	
R6687	1-249-431-11	CARBON	15K	5%	1/4W	
R6688	1-249-417-11	CARBON	1K	5%	1/4W	
R6689	1-247-843-11	CARBON	3.3K	5%	1/4W	
R6690	1-249-429-11	CARBON	10K	5%	1/4W	
R6691	1-215-446-00	METAL	11K	1%	1/4W	
R6692	1-215-445-00	METAL	10K	1%	1/4W	
R6700	1-215-441-00	METAL	6.8K	1%	1/4W	
R6701	1-215-437-00	METAL	4.7K	1%	1/4W	
R6702	1-215-441-00	METAL	6.8K	1%	1/4W	
R6703	1-215-437-00	METAL	4.7K	1%	1/4W	
R6704	1-249-383-11	CARBON	1.5	5%	1/4W	F
R6705	1-247-791-91	CARBON	22	5%	1/4W	
R6706	1-249-389-11	CARBON	4.7	5%	1/4W	F
R6707	1-215-888-00	METAL OXIDE	220	5%	2W	F
R6708	1-214-798-21	METAL	1.8	1%	1/2W	
R6709	1-214-798-21	METAL	1.8	1%	1/2W	
R6710	1-247-843-11	CARBON	3.3K	5%	1/4W	
R6711	1-249-418-11	CARBON	1.2K	5%	1/4W	
R6801	1-215-440-00	METAL	6.2K	1%	1/4W	
R6802	1-214-915-00	METAL	120K	1%	1/2W	
R6803	1-249-421-11	CARBON	2.2K	5%	1/4W	
R6804	1-249-408-11	CARBON	180	5%	1/4W	
R6805	1-249-408-11	CARBON	180	5%	1/4W	
R6806	1-249-411-11	CARBON	330	5%	1/4W	
R6807	1-249-411-11	CARBON	330	5%	1/4W	
R6808	1-260-340-11	CARBON	10K	5%	1/2W	
R6809	1-260-340-11	CARBON	10K	5%	1/2W	
R6811	1-216-461-00	METAL OXIDE	5.6K	5%	2W	F
R6812	1-215-895-11	METAL OXIDE	3.3K	5%	2W	F
R6813	1-215-920-11	METAL OXIDE	3.3K	5%	3W	F
R6814	1-215-880-00	METAL OXIDE	10	5%	2W	F
R6815	1-215-880-00	METAL OXIDE	10	5%	2W	F
R6816	1-216-361-00	METAL OXIDE	0.22	5%	2W	F
R6817	1-216-361-00	METAL OXIDE	0.22	5%	2W	F
R6818	1-249-405-11	CARBON	100	5%	1/4W	F
R6819	1-247-807-31	CARBON	100	5%	1/4W	
R6820	1-216-391-11	METAL OXIDE	1.5	5%	3W	F
R6821	1-216-391-11	METAL OXIDE	1.5	5%	3W	F
R6831	1-260-124-11	CARBON	120K	5%	1/2W	
R6832	1-216-434-11	METAL OXIDE	1.8K	5%	1W	F
R6833	1-202-972-61	FUSIBLE	1	5%	1/4W	F
R6834	1-535-303-00	LEAD, JUMPER (5.0MM)				
R6835	1-260-288-11	CARBON	0.47	5%	1/2W	
R6837	1-215-919-11	METAL OXIDE	2.2K	5%	3W	F
R6838	1-214-905-11	METAL	47K	1%	1/2W	
R6839	1-215-919-11	METAL OXIDE	2.2K	5%	3W	F
R6840	1-247-843-11	CARBON	3.3K	5%	1/4W	
R6842	1-260-123-11	CARBON	100K	5%	1/2W	
R6843	1-249-429-11	CARBON	10K	5%	1/4W	
R6844	1-249-441-11	CARBON	100K	5%	1/4W	
R6845	1-247-863-91	CARBON	22K	5%	1/4W	
R6851	1-260-123-11	CARBON	100K	5%	1/2W	
R6852	1-260-123-11	CARBON	100K	5%	1/2W	
R6853	1-260-123-11	CARBON	100K	5%	1/2W	
R6854	1-249-417-11	CARBON	1K	5%	1/4W	
R6880	1-215-436-00	METAL	4.3K	1%	1/4W	
R6885	1-215-493-00	METAL	1M	1%	1/4W	
R6886	1-215-477-00	METAL	220K	1%	1/4W	
R6887	1-215-461-00	METAL	47K	1%	1/4W	
R6888	1-249-441-11	CARBON	100K	5%	1/4W	
R6891	1-535-303-00	LEAD, JUMPER (5.0MM)				
R6892	1-535-303-00	LEAD, JUMPER (5.0MM)				
R6895	1-249-443-11	CARBON	0.47	5%	1/4W	F
R6896	1-249-443-11	CARBON	0.47	5%	1/4W	F
R6898	1-215-493-00	METAL	1M	1%	1/4W	
R6899	1-215-493-00	METAL	1M	1%	1/4W	

< RELAY >

RY6601	⚠	1-755-266-11	RELAY, AC POWER	
RY6602	⚠	1-755-167-11	RELAY, AC POWER	

< TRANSFORMER >

T6600		1-431-616-11	TRANSFORMER, CONVERTER	
T6601	⚠	1-433-516-11	TRANSFORMER, CONVERTER (PIT)	
T6651	⚠	1-431-732-11	TRANSFORMER, CONVERTER (SRT)	
T6801		1-433-489-31	TRANSFORMER, FERRITE (HDT)	
T6802		1-433-489-31	TRANSFORMER, FERRITE (HDT)	
T6804	⚠	1-453-319-11	TRANSFORMER, ASSY FLYBACK (NX-4512/U214)	
T6852		1-433-487-11	TRANSFORMER, FERRITE (DFT)	

< THERMISTOR >

TH6600	⚠	1-809-827-11	THERMISTOR, POSITIVE	
TH6700		1-800-193-00	THERMISTOR	

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D E

REF. NO.	PART.NO	DESCRIPTION			REMARK

D Board Variant Parts KV-28FC60/28FC60/Z

< CAPACITOR >

C6814	1-117-641-11	FILM	7500PF	3%	1.2KV
C6815	1-117-836-11	FILM	6800PF	3%	1.5KV
C6825	1-115-514-11	FILM	0.22MF	5%	250V
C6826	1-115-520-11	FILM	0.68MF	5%	250V

< RESISTOR >

R6810	1-215-920-11	METAL OXIDE	3.3K	5%	3W	F
R6836	1-249-432-21	CARBON	18K	5%	1/4W	
R6856	1-216-486-00	METAL OXIDE	8.2K	5%	3W	F
R6857	1-216-486-00	METAL OXIDE	8.2K	5%	3W	F
R6858	1-216-486-00	METAL OXIDE	8.2K	5%	3W	F
R6859	1-216-486-00	METAL OXIDE	8.2K	5%	3W	F
R6897	1-215-485-00	METAL	470K	1%	1/4W	

D Board Variant Parts KV-32FC60/32FC60/Z

< CAPACITOR >

C6814	1-117-640-11	FILM	6800PF	3%	1.2KV
C6815	1-117-835-11	FILM	6200PF	3%	1.5KV
C6825	1-117-662-11	FILM	0.18MF	5%	250V
C6826	1-115-579-11	FILM	0.56MF	5%	250V

< RESISTOR >

R6810	1-216-484-00	METAL OXIDE	3.9K	5%	3W
R6836	1-249-431-11	CARBON	15K	5%	1/4W
R6856	1-215-922-11	METAL OXIDE	6.8K	5%	3W
R6857	1-215-922-11	METAL OXIDE	6.8K	5%	3W
R6858	1-215-922-11	METAL OXIDE	6.8K	5%	3W
R6859	1-215-922-11	METAL OXIDE	6.8K	5%	3W
R6897	1-215-489-11	METAL	680K	1%	1/4W

*A-1640-348-A	E Board, Complete (KV-28FC60/28FC60/Z)
*A-1640-347-A	E Board, Complete (KV-32FC60/32FC60/Z)

E Board Common Parts

< CAPACITOR >

C4316	1-104-664-11	ELECT	47MF	20%	25V
C4317	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C4318	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C4319	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C4320	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C4321	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C4322	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C4324	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C4325	1-163-093-00	CERAMIC CHIP	10PF	5%	50V
C4329	1-126-963-11	ELECT	4.7MF	20%	50V
C4330	1-137-581-11	FILM	0.1MF	5%	100V
C4331	1-126-959-11	ELECT	0.47MF	20%	50V
C4332	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C4333	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C4334	1-126-967-11	ELECT	47MF	20%	50V
C4336	1-126-967-11	ELECT	47MF	20%	50V
C4338	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C4340	1-126-967-11	ELECT	47MF	20%	50V
C4342	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V
C4343	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C4344	1-163-809-11	CERAMIC CHIP	0.047MF	10%	25V
C4345	1-126-967-11	ELECT	47MF	20%	50V
C4346	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C4347	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C4348	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C4349	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C4350	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C4351	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C4352	1-126-967-11	ELECT	47MF	20%	50V
C4353	1-107-823-11	CERAMIC CHIP	0.47MF	10%	16V
C4354	1-107-823-11	CERAMIC CHIP	0.47MF	10%	16V
C4355	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C4356	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C4357	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C4358	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C4359	1-164-161-11	CERAMIC CHIP	0.0022MF	10%	50V
C4360	1-126-963-11	ELECT	4.7MF	20%	50V
C4362	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C4363	1-126-967-11	ELECT	47MF	20%	50V
C4364	1-126-967-11	ELECT	47MF	20%	50V
C4366	1-163-059-91	CERAMIC CHIP	0.01MF	10%	50V
C4369	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C4370	1-126-967-11	ELECT	47MF	20%	50V
C4371	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C4377	1-126-960-11	ELECT	1MF	20%	50V
C4379	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C4381	1-163-259-91	CERAMIC CHIP	220PF	5%	50V

< CONNECTOR >

CN4101	1-695-301-11	CONNECTOR, BOARD TO BOARD 40P	
CN4500	*1-564-511-11	PLUG, CONNECTOR 8P	
CN4502	*1-568-878-51	PIN, CONNECTOR 3P	

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E

REF. NO.	PART.NO	DESCRIPTION	REMARK
		< DIODE >	
D4304	8-719-923-60	DIODE MTZJ-T-77-9.1A	
D4305	8-719-923-60	DIODE MTZJ-T-77-9.1A	
D4311	8-719-914-43	DIODE DAN202K	
D4312	8-719-914-43	DIODE DAN202K	
D4313	8-719-401-63	DIODE MA3062M-TX	
		< FERRITE BEAD >	
FB4387	1-414-234-22	INDUCTOR CHIP 0UH	
FB4388	1-414-234-22	INDUCTOR CHIP 0UH	
FB4389	1-414-234-22	INDUCTOR CHIP 0UH	
		< IC >	
IC4301	8-752-090-88	IC CXA2100AQ-TL	
		< COIL >	
L4301	1-414-183-41	INDUCTOR 10UH	
L4302	1-414-183-41	INDUCTOR 10UH	
L4303	1-414-183-41	INDUCTOR 10UH	
L4304	1-414-183-41	INDUCTOR 10UH	
L4305	1-414-183-41	INDUCTOR 10UH	
L4306	1-414-183-41	INDUCTOR 10UH	
L4308	1-414-186-31	INDUCTOR 33UH	
L4309	1-414-186-31	INDUCTOR 33UH	
		< TRANSISTOR >	
Q4304	8-729-026-49	TRANSISTOR 2SA1037K-T-146-R	
Q4307	8-729-026-49	TRANSISTOR 2SA1037K-T-146-R	
Q4308	8-729-026-49	TRANSISTOR 2SA1037K-T-146-R	
Q4309	8-729-026-49	TRANSISTOR 2SA1037K-T-146-R	
Q4310	8-729-026-49	TRANSISTOR 2SA1037K-T-146-R	
Q4315	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q4316	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q4317	8-729-900-53	TRANSISTOR DTC114EK	
		< RESISTOR >	
R4301	1-216-025-91	RES,CHIP 100 5%	1/10W
R4302	1-216-025-91	RES,CHIP 100 5%	1/10W
R4303	1-216-025-91	RES,CHIP 100 5%	1/10W
R4304	1-216-025-91	RES,CHIP 100 5%	1/10W
R4305	1-216-025-91	RES,CHIP 100 5%	1/10W
R4306	1-216-025-91	RES,CHIP 100 5%	1/10W
R4313	1-216-065-91	RES,CHIP 4.7K 5%	1/10W
R4314	1-216-057-00	RES,CHIP 2.2K 5%	1/10W
R4331	1-216-073-00	RES,CHIP 10K 5%	1/10W
R4332	1-216-073-00	RES,CHIP 10K 5%	1/10W
R4333	1-216-073-00	RES,CHIP 10K 5%	1/10W
R4334	1-216-025-91	RES,CHIP 100 5%	1/10W
R4335	1-216-025-91	RES,CHIP 100 5%	1/10W
R4336	1-216-025-91	RES,CHIP 100 5%	1/10W
R4337	1-216-025-91	RES,CHIP 100 5%	1/10W
R4339	1-216-049-91	RES,CHIP 1K 5%	1/10W
R4341	1-216-295-91	SHORT 0	
R4343	1-216-025-91	RES,CHIP 100 5%	1/10W
R4344	1-216-025-91	RES,CHIP 100 5%	1/10W
R4345	1-216-677-11	METAL CHIP 12K 0.50%	1/10W
R4346	1-216-683-11	METAL CHIP 22K 0.50%	1/10W
R4347	1-216-025-91	RES,CHIP 100 5%	1/10W
R4348	1-216-025-91	RES,CHIP 100 5%	1/10W
R4350	1-216-025-91	RES,CHIP 100 5%	1/10W
R4354	1-216-675-91	METAL CHIP 10K 0.50%	1/10W
R4358	1-216-071-00	RES,CHIP 8.2K 5%	1/10W
R4359	1-216-041-00	RES,CHIP 470 5%	1/10W
R4360	1-216-057-00	RES,CHIP 2.2K 5%	1/10W
R4361	1-216-133-00	RES,CHIP 3.3M 5%	1/10W
R4363	1-216-025-91	RES,CHIP 100 5%	1/10W
R4365	1-216-025-91	RES,CHIP 100 5%	1/10W
R4366	1-216-025-91	RES,CHIP 100 5%	1/10W
R4367	1-216-025-91	RES,CHIP 100 5%	1/10W
R4370	1-216-089-91	RES,CHIP 47K 5%	1/10W
R4371	1-216-069-00	RES,CHIP 6.8K 5%	1/10W
R4372	1-216-049-91	RES,CHIP 1K 5%	1/10W
R4373	1-216-073-00	RES,CHIP 10K 5%	1/10W
R4374	1-216-049-91	RES,CHIP 1K 5%	1/10W
R4375	1-216-049-91	RES,CHIP 1K 5%	1/10W
R4376	1-216-049-91	RES,CHIP 1K 5%	1/10W
R4377	1-216-049-91	RES,CHIP 1K 5%	1/10W
R4378	1-216-101-00	RES,CHIP 150K 5%	1/10W
R4379	1-216-091-00	RES,CHIP 56K 5%	1/10W
R4380	1-216-073-00	RES,CHIP 10K 5%	1/10W
R4382	1-216-073-00	RES,CHIP 10K 5%	1/10W
R4383	1-216-079-00	RES,CHIP 18K 5%	1/10W
R4384	1-216-025-91	RES,CHIP 100 5%	1/10W
R4387	1-216-031-00	RES,CHIP 180 5%	1/10W
R4388	1-216-031-00	RES,CHIP 180 5%	1/10W
R4389	1-216-031-00	RES,CHIP 180 5%	1/10W
R4395	1-216-295-91	SHORT 0	
R4396	1-216-295-91	SHORT 0	
R4398	1-216-025-91	RES,CHIP 100 5%	1/10W
R4401	1-216-105-91	RES,CHIP 220K 5%	1/10W
R4504	1-216-295-91	SHORT 0	
R4505	1-216-295-91	SHORT 0	
R4506	1-216-295-91	SHORT 0	

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E D1

REF. NO.	PART.NO	DESCRIPTION			REMARK
R4518	1-216-025-91	RES,CHIP	100	5%	1/10W
R4519	1-216-025-91	RES,CHIP	100	5%	1/10W
R4520	1-216-295-91	SHORT	0		
R4521	1-216-295-91	SHORT	0		
R4522	1-216-295-91	SHORT	0		
R4523	1-216-295-91	SHORT	0		
	< CRYSTAL >				
X4300	1-767-127-11	VIBRATOR, CERAMIC			

E Board Variant Parts KV-28FC60/28FC60/Z

	< CAPACITOR >				
C4367	1-163-809-11	CERAMIC CHIP	0.047MF	10%	25V

E Board Variant Parts KV-32FC60/32FC60/Z

	< CAPACITOR >				
C4367	1-104-760-11	CERAMIC CHIP	0.047MF	10%	50V
C4380	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
	< TRANSISTOR >				
Q4318	8-729-026-49	TRANSISTOR 2SA1037AK-T-146-R			
	< RESISTOR >				
R4403	1-216-073-00	RES, CHIP	10K	5%	1/10W
R4404	1-216-073-00	RES, CHIP	10K	5%	1/10W
R4405	1-216-689-11	RES, CHIP	39K	5%	1/10W
R4406	1-216-105-91	RES, CHIP	220K	5%	1/10W
R4407	1-216-091-00	RES, CHIP	56K	5%	1/10W

*A-1640-369-A	D1 Board, Complete (KV-28FC60/28FC60/Z)
*A-1640-366-A	D1 Board, Complete (KV-32FC60/32FC60/Z)

D1 Board Common Parts

4-382-854-11 SCREW (M3X10), P, SW (+)

	< CAPACITOR >				
C6100	1-136-165-00	FILM	0.1MF	5%	50V
C6101	1-136-165-00	FILM	0.1MF	5%	50V
C6102	1-136-165-00	FILM	0.1MF	5%	50V
C6103	1-163-205-00	CERAMIC CHIP	0.001MF	5%	50V
C6104	1-163-205-00	CERAMIC CHIP	0.001MF	5%	50V
C6105	1-126-967-11	ELECT	47MF	20%	50V
C6106	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C6108	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V
C6109	1-126-967-11	ELECT	47MF	20%	50V
C6110	1-126-967-11	ELECT	47MF	20%	50V
C6112	1-163-037-11	CERAMIC CHIP	0.022MF	10%	50V
C6113	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V
C6114	1-126-964-11	ELECT	10MF	20%	50V
C6115	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C6116	1-163-275-11	CERAMIC CHIP	0.001MF	5%	50V
C6117	1-163-275-11	CERAMIC CHIP	0.001MF	5%	50V
C6119	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V
C6120	1-163-809-11	CERAMIC CHIP	0.047MF	10%	25V
C6121	1-126-964-11	ELECT	10MF	20%	50V
C6122	1-126-967-11	ELECT	47MF	20%	50V
C6125	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C6126	1-163-809-11	CERAMIC CHIP	0.047MF	10%	25V
C6127	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V
C6128	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C6129	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C6131	1-126-964-11	ELECT	10MF	20%	50V
C6132	1-163-259-91	CERAMIC CHIP	220PF	5%	50V
C6199	1-163-229-11	CERAMIC CHIP	12PF	5%	50V
C6207	1-126-967-11	ELECT	47MF	20%	50V
C6208	1-126-967-11	ELECT	47MF	20%	50V
C6209	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C6210	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C6250	1-104-664-11	ELECT	47MF	20%	16V
C6251	1-216-295-91	SHORT	0		
C6253	1-115-339-11	CERAMIC CHIP	0.1MF	10%	50V
C6254	1-136-177-00	FILM	1MF	5%	50V
C6255	1-136-177-00	FILM	1MF	5%	50V
C6256	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C6257	1-115-339-11	CERAMIC CHIP	0.1MF	10%	50V
C6258	1-163-127-00	CERAMIC CHIP	270PF	5%	50V
C6259	1-110-501-11	CERAMIC CHIP	0.33MF	10%	16V
C6260	1-104-664-11	ELECT	47MF	20%	16V
C6261	1-115-339-11	CERAMIC CHIP	0.1MF	10%	50V
C6262	1-136-165-00	FILM	0.1MF	5%	50V
C6263	1-163-109-00	CERAMIC CHIP	47PF	5%	50V
C6264	1-126-964-11	ELECT	10MF	20%	50V
C6306	1-126-964-11	ELECT	10MF	20%	50V
C6307	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V
C6350	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C6351	1-126-967-11	ELECT	47MF	20%	50V
C6353	1-115-339-11	CERAMIC CHIP	0.1MF	10%	50V
C6354	1-136-159-00	FILM	0.033MF	5%	50V
C6355	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C6356	1-163-809-11	CERAMIC CHIP	0.047MF	10%	25V

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The components identified by shading and marked ⚠ are critical for safety
Replace only with the part number specified.

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REF. NO.	PART.NO	DESCRIPTION				REMARK
C6357	1-136-165-00	FILM	0.1MF	5%	50V	
C6358	1-104-329-11	CERAMIC CHIP	0.1MF	10%	50V	
C6359	1-104-329-11	CERAMIC CHIP	0.1MF	10%	50V	
C6360	1-107-714-11	ELECT	10MF	20%	50V	
C6361	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C6362	1-164-182-11	CERAMIC CHIP	0.0033MF	10%	50V	
C6363	1-104-665-11	ELECT	100MF	20%	25V	
C6364	1-136-347-11	FILM	0.0047MF	5%	630V	
C6365	1-163-809-11	CERAMIC CHIP	0.047MF	10%	25V	
C6367	1-104-329-11	CERAMIC CHIP	0.1MF	10%	50V	
C6368	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V	
C6370	1-136-347-11	FILM	0.0047MF	5%	630V	
C6373	1-136-153-00	FILM	0.01MF	5%	50V	
C6374	1-129-716-00	FILM	0.015MF	5%	630V	
C6375	1-102-110-00	CERAMIC	220PF	10%	50V	
C6376	1-104-664-11	ELECT	47MF	20%	16V	
C6377	1-128-551-11	ELECT	22MF	20%	25V	
C6378	1-115-339-11	CERAMIC CHIP	0.1MF	10%	50V	
C6380	1-136-165-00	FILM	0.1MF	5%	50V	
C6381	1-126-960-11	ELECT	1MF	20%	50V	
C6385	1-104-664-11	ELECT	47MF	20%	25V	
C6386	1-104-664-11	ELECT	47MF	20%	25V	
C6388	1-126-964-11	ELECT	10MF	20%	50V	
C6389	1-126-964-11	ELECT	10MF	20%	50V	
C6392	1-104-664-11	ELECT	47MF	20%	25V	
C6401	1-126-964-11	ELECT	10MF	20%	50V	
C6402	1-107-714-11	ELECT	10MF	20%	50V	
C6407	1-136-161-00	FILM	0.047MF	5%	50V	
C6408	1-136-161-00	FILM	0.047MF	5%	50V	
C6409	1-126-964-11	ELECT	10MF	20%	50V	
		< CONNECTOR >				
CN6502	*1-568-881-51	PIN, CONNECTOR 6P				
CN6600	*1-508-786-00	PIN, CONNECTOR (5MM PITCH) 2P				
CN6601	1-695-302-11	CONNECTOR, BOARD TO BOARD 50P				
CN6622	*1-568-878-51	PIN, CONNECTOR 3P				
CN6633	*1-568-878-51	PIN, CONNECTOR 3P				
		< DIODE >				
D6102	8-719-914-43	DIODE DAN202K				
D6104	8-719-914-43	DIODE DAN202K				
D6105	8-719-914-43	DIODE DAN202K				
D6107	8-719-914-43	DIODE DAN202K				
D6108	8-719-921-40	DIODE MTZJ-4.7C				
D6127	8-719-914-43	DIODE DAN202K				
D6128	8-719-914-43	DIODE DAN202K				
D6129	8-719-914-43	DIODE DAN202K				
D6198	1-535-303-00	LEAD, JUMPER (5.0MM)				
D6253	8-719-911-19	DIODE 1SS119-25				
D6254	1-535-303-00	LEAD, JUMPER (5.0MM)				
D6255	8-719-914-43	DIODE DAN202K				
D6350	8-719-914-43	DIODE DAN202K				
D6351	8-719-914-43	DIODE DAN202K				
D6352	8-719-914-43	DIODE DAN202K				
D6353	8-719-987-87	DIODE ERA85-009				
D6354	8-719-914-43	DIODE DAN202K				
D6355	8-719-914-43	DIODE DAN202K				
D6358	8-719-914-43	DIODE DAN202K				
D6359	8-719-302-43	DIODE EL1Z				
D6401	8-719-914-43	DIODE DAN202K				
D6402	8-719-982-03	DIODE MTZJ-3.6A				
D6403	8-719-921-63	DIODE MTZJ-7.5B				
D6404	8-719-914-43	DIODE DAN202K				
D6405	8-719-921-63	DIODE MTZJ-7.5B				
		< IC >				
IC6100	8-759-450-95	IC LM393N				
IC6101	8-759-450-95	IC LM393N				
IC6102	8-759-701-50	IC NJM3404AD				
IC6103	8-759-450-95	IC LM393N				
IC6250	8-759-478-66	IC CXA8070P				
IC6251	8-759-903-16	IC LM318P				
IC6302	8-752-072-94	IC CXA1875AM-T4				
IC6350	8-759-008-70	IC LM358N				
IC6351	8-759-450-95	IC LM393N				
IC6352	8-759-450-95	IC LM393N				
IC6353	8-759-231-53	IC TA7805S				
IC6354	8-759-325-48	IC CA0005AD				
IC6355	8-759-008-70	IC LM358N				
IC6356	8-759-822-38	IC LA6510				
		< FILTER >				
LF6350	1-406-989-21	INDUCTOR	10MMH			
LF6351	1-406-989-21	INDUCTOR	10MMH			
		< IC LINK >				
PS6376	⚠ 1-532-637-00	LINK, IC 1A (ICP-N25)				
		< TRANSISTOR >				
Q6100	8-729-120-28	TRANSISTOR 2SC1623-L5L6				
Q6101	8-729-120-28	TRANSISTOR 2SC1623-L5L6				
Q6102	8-729-120-28	TRANSISTOR 2SC1623-L5L6				
Q6103	8-729-120-28	TRANSISTOR 2SC1623-L5L6				
Q6104	8-729-120-28	TRANSISTOR 2SC1623-L5L6				

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REF. NO.	PART.NO	DESCRIPTION	REMARK
Q6105	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q6106	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q6107	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q6108	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q6110	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q6112	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q6113	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q6118	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q6119	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q6120	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q6122	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q6123	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q6125	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q6126	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q6127	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q6128	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q6129	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q6201	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q6202	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q6250	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q6251	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q6252	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q6253	8-729-045-04	TRANSISTOR 2SC5511	
Q6254	8-729-045-05	TRANSISTOR 2SA005	
Q6350	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q6351	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q6352	8-729-140-97	TRANSISTOR 2SB734-34	
Q6353	8-729-140-97	TRANSISTOR 2SB734-34	
Q6354	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q6356	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q6358	8-729-038-83	TRANSISTOR 2SK2251-01-F19	
Q6401	1-801-806-11	TRANSISTOR DTC144EKA	
Q6402	1-801-806-11	TRANSISTOR DTC144EKA	
Q6403	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q6404	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q6405	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q6455	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q6465	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
		< RESISTOR >	
R6100	1-216-033-00	RES,CHIP 220 5% 1/10W	
R6101	1-216-033-00	RES,CHIP 220 5% 1/10W	
R6102	1-216-057-00	RES,CHIP 2.2K 5% 1/10W	
R6103	1-216-057-00	RES,CHIP 2.2K 5% 1/10W	
R6104	1-216-057-00	RES,CHIP 2.2K 5% 1/10W	
R6105	1-216-049-91	RES,CHIP 1K 5% 1/10W	
R6106	1-216-057-00	RES,CHIP 2.2K 5% 1/10W	
R6109	1-216-683-11	METAL CHIP 22K 0.50% 1/10W	
R6110	1-216-683-11	METAL CHIP 22K 0.50% 1/10W	
R6111	1-216-057-00	RES,CHIP 2.2K 5% 1/10W	
R6112	1-216-057-00	RES,CHIP 2.2K 5% 1/10W	
R6113	1-216-073-00	RES,CHIP 10K 5% 1/10W	
R6114	1-216-073-00	RES,CHIP 10K 5% 1/10W	
R6115	1-216-089-91	RES,CHIP 47K 5% 1/10W	
R6116	1-216-089-91	RES,CHIP 47K 5% 1/10W	
R6117	1-216-073-00	RES,CHIP 10K 5% 1/10W	
R6118	1-216-073-00	RES,CHIP 10K 5% 1/10W	
R6119	1-216-073-00	RES,CHIP 10K 5% 1/10W	
R6120	1-216-057-00	RES,CHIP 2.2K 5% 1/10W	
R6121	1-216-057-00	RES,CHIP 2.2K 5% 1/10W	
R6122	1-216-057-00	RES,CHIP 2.2K 5% 1/10W	
R6123	1-216-089-91	RES,CHIP 47K 5% 1/10W	
R6124	1-216-089-91	RES,CHIP 47K 5% 1/10W	
R6125	1-216-057-00	RES,CHIP 2.2K 5% 1/10W	
R6126	1-216-037-00	RES,CHIP 330 5% 1/10W	
R6128	1-216-691-11	METAL CHIP 47K 0.50% 1/10W	
R6129	1-216-691-11	METAL CHIP 47K 0.50% 1/10W	
R6131	1-216-037-00	RES,CHIP 330 5% 1/10W	
R6132	1-216-037-00	RES,CHIP 330 5% 1/10W	
R6133	1-216-037-00	RES,CHIP 330 5% 1/10W	
R6135	1-163-021-91	CERAMIC CHIP 0.01MF 10% 50V	
R6136	1-216-691-11	METAL CHIP 47K 0.50% 1/10W	
R6137	1-216-691-11	METAL CHIP 47K 0.50% 1/10W	
R6138	1-216-691-11	METAL CHIP 47K 0.50% 1/10W	
R6139	1-216-691-11	METAL CHIP 47K 0.50% 1/10W	
R6140	1-216-057-00	RES,CHIP 2.2K 5% 1/10W	
R6143	1-216-057-00	RES,CHIP 2.2K 5% 1/10W	
R6146	1-216-065-91	RES,CHIP 4.7K 5% 1/10W	
R6148	1-216-295-91	SHORT 0	
R6149	1-216-025-91	RES,CHIP 100 5% 1/10W	
R6155	1-216-065-91	RES,CHIP 4.7K 5% 1/10W	
R6160	1-216-295-91	SHORT 0	
R6162	1-216-049-91	RES,CHIP 1K 5% 1/10W	
R6165	1-216-699-91	METAL CHIP 100K 0.50% 1/10W	
R6168	1-216-065-91	RES,CHIP 4.7K 5% 1/10W	
R6169	1-216-699-91	METAL CHIP 100K 0.50% 1/10W	
R6170	1-216-037-00	RES,CHIP 330 5% 1/10W	
R6171	1-216-057-00	RES,CHIP 2.2K 5% 1/10W	
R6177	1-216-065-91	RES,CHIP 4.7K 5% 1/10W	
R6180	1-216-057-00	RES,CHIP 2.2K 5% 1/10W	
R6182	1-216-089-91	RES,CHIP 47K 5% 1/10W	
R6183	1-216-057-00	RES,CHIP 2.2K 5% 1/10W	
R6188	1-216-065-91	RES,CHIP 4.7K 5% 1/10W	

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REF. NO.	PART.NO	DESCRIPTION			REMARK
R6190	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R6191	1-215-925-11	METAL OXIDE	22K	5%	3W F
R6192	1-216-683-11	METAL CHIP	22K	0.50%	1/10W
R6194	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R6195	1-216-683-11	METAL CHIP	22K	0.50%	1/10W
R6196	1-249-377-11	CARBON	0.47	5%	1/4W F
R6199	1-216-081-00	RES,CHIP	22K	5%	1/10W
R6205	1-216-025-91	RES,CHIP	100	5%	1/10W
R6208	1-216-089-91	RES,CHIP	47K	5%	1/10W
R6210	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R6211	1-216-073-00	RES,CHIP	10K	5%	1/10W
R6212	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R6215	1-216-089-91	RES,CHIP	47K	5%	1/10W
R6216	1-216-089-91	RES,CHIP	47K	5%	1/10W
R6217	1-216-073-00	RES,CHIP	10K	5%	1/10W
R6218	1-216-295-91	SHORT	0		
R6254	1-216-049-91	RES,CHIP	1K	5%	1/10W
R6255	1-216-061-00	RES,CHIP	3.3K	5%	1/10W
R6256	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R6257	1-216-061-00	RES,CHIP	3.3K	5%	1/10W
R6258	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R6259	1-216-097-91	RES,CHIP	100K	5%	1/10W
R6260	1-216-049-91	RES,CHIP	1K	5%	1/10W
R6261	1-216-097-91	RES,CHIP	100K	5%	1/10W
R6262	1-260-321-71	CARBON	270	5%	1/2W
R6263	1-216-025-91	RES,CHIP	100	5%	1/10W
R6264	1-216-025-91	RES,CHIP	100	5%	1/10W
R6267	1-216-049-91	RES,CHIP	1K	5%	1/10W
R6269	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W
R6270	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W
R6271	1-216-683-11	METAL CHIP	22K	0.50%	1/10W
R6278	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R6279	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R6280	1-212-849-00	FUSIBLE	4.7	5%	1/4W F
R6281	1-212-849-00	FUSIBLE	4.7	5%	1/4W F
R6282	1-215-886-11	METAL OXIDE	100	5%	2W F
R6283	1-216-393-00	METAL OXIDE	2.2	5%	3W F
R6285	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R6313	1-216-295-91	SHORT	0		
R6322	1-216-049-91	RES,CHIP	1K	5%	1/10W
R6323	1-216-049-91	RES,CHIP	1K	5%	1/10W
R6324	1-216-025-91	RES,CHIP	100	5%	1/10W
R6325	1-216-025-91	RES,CHIP	100	5%	1/10W
R6350	1-216-089-91	RES,CHIP	47K	5%	1/10W
R6351	1-218-762-11	METAL CHIP	270K	0.50%	1/10W
R6353	1-216-671-11	METAL CHIP	6.8K	0.50%	1/10W
R6355	1-218-774-11	METAL CHIP	820K	0.50%	1/10W
R6356	1-216-675-91	METAL CHIP	10K	0.50%	1/10W
R6357	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R6358	1-216-047-91	RES,CHIP	820	5%	1/10W
R6359	1-216-097-91	RES,CHIP	100K	5%	1/10W
R6360	1-216-073-00	RES,CHIP	10K	5%	1/10W
R6361	1-216-097-91	RES,CHIP	100K	5%	1/10W
R6362	1-216-687-11	METAL CHIP	33K	0.50%	1/10W
R6363	1-216-675-91	METAL CHIP	10K	0.50%	1/10W
R6364	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R6365	1-216-033-00	RES,CHIP	220	5%	1/10W
R6366	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R6367	1-216-679-11	METAL CHIP	15K	0.50%	1/10W
R6368	1-218-760-11	METAL CHIP	220K	0.50%	1/10W
R6369	1-218-762-11	METAL CHIP	270K	0.50%	1/10W
R6371	1-216-474-11	METAL OXIDE	82	5%	3W F
R6372	1-216-033-00	RES,CHIP	220	5%	1/10W
R6373	1-216-681-11	METAL CHIP	18K	0.50%	1/10W
R6374	1-216-689-11	METAL CHIP	39K	0.50%	1/10W
R6375	1-216-041-00	RES,CHIP	470	5%	1/10W
R6377	1-216-689-11	METAL CHIP	39K	0.50%	1/10W
R6378	1-216-675-91	METAL CHIP	10K	0.50%	1/10W
R6379	1-216-295-91	SHORT	0		
R6380	1-218-754-11	METAL CHIP	120K	0.50%	1/10W
R6381	1-216-045-00	RES,CHIP	680	5%	1/10W
R6382	1-218-754-11	METAL CHIP	120K	0.50%	1/10W
R6383	1-216-687-11	METAL CHIP	33K	0.50%	1/10W
R6384	1-216-043-91	RES,CHIP	560	5%	1/10W
R6385	1-216-295-91	SHORT	0		
R6386	1-216-699-91	METAL CHIP	100K	0.50%	1/10W
R6387	1-216-677-11	METAL CHIP	12K	0.50%	1/10W
R6391	1-249-417-11	CARBON	1K	5%	1/4W
R6394	1-216-069-00	RES,CHIP	6.8K	5%	1/10W
R6395	1-216-081-00	RES,CHIP	22K	5%	1/10W
R6397	1-216-675-91	METAL CHIP	10K	0.50%	1/10W
R6398	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R6399	1-218-756-11	METAL CHIP	150K	0.50%	1/10W
R6400	1-216-675-91	METAL CHIP	10K	0.50%	1/10W
R6401	1-216-295-91	SHORT	0		
R6402	1-216-295-91	SHORT	0		
R6403	1-216-661-11	METAL CHIP	2.7K	0.50%	1/10W
R6404	1-216-683-11	METAL CHIP	22K	0.50%	1/10W
R6405	1-216-683-11	METAL CHIP	22K	0.50%	1/10W
R6409	1-216-025-91	RES,CHIP	100	5%	1/10W
R6410	1-216-073-00	RES,CHIP	10K	5%	1/10W
R6411	1-216-073-00	RES,CHIP	10K	5%	1/10W
R6412	1-216-073-00	RES,CHIP	10K	5%	1/10W
R6413	1-216-679-11	METAL CHIP	15K	0.50%	1/10W

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D1

REF. NO.	PART.NO	DESCRIPTION			REMARK
R6414	1-216-683-11	METAL CHIP	22K	0.50%	1/10W
R6415	1-216-683-11	METAL CHIP	22K	0.50%	1/10W
R6416	1-216-683-11	METAL CHIP	22K	0.50%	1/10W
R6418	1-216-091-00	RES,CHIP	56K	5%	1/10W
R6419	1-216-073-00	RES,CHIP	10K	5%	1/10W
R6420	1-216-089-91	RES,CHIP	47K	5%	1/10W
R6421	1-216-637-11	METAL CHIP	270	0.50%	1/10W
R6422	1-216-639-11	METAL CHIP	330	0.50%	1/10W
R6423	1-216-657-11	METAL CHIP	1.8K	0.50%	1/10W
R6426	1-216-081-00	RES,CHIP	22K	5%	1/10W
R6427	1-216-081-00	RES,CHIP	22K	5%	1/10W
R6429	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R6430	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R6432	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R6433	1-216-073-00	RES,CHIP	10K	5%	1/10W
R6437	1-249-422-11	CARBON	2.7K	5%	1/4W
R6438	1-249-421-11	CARBON	2.2K	5%	1/4W
R6439	1-216-683-11	METAL CHIP	22K	0.50%	1/10W
R6440	1-216-683-11	METAL CHIP	22K	0.50%	1/10W
R6441	1-216-675-91	METAL CHIP	10K	0.50%	1/10W
R6442	1-216-039-00	RES,CHIP	390	5%	1/10W
R6455	1-216-295-91	SHORT	0		
R6456	1-216-097-91	RES,CHIP	100K	5%	1/10W
R6457	1-216-075-00	RES,CHIP	12K	5%	1/10W
R6458	1-216-089-91	RES,CHIP	47K	5%	1/10W
R6459	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R6460	1-249-393-11	CARBON	10	5%	1/4W
R6461	1-249-411-11	CARBON	330	5%	1/4W
R6462	1-249-406-11	CARBON	120	5%	1/4W
R6463	1-216-095-00	RES,CHIP	82K	5%	1/10W
R6464	1-216-079-00	RES,CHIP	18K	5%	1/10W

D1 Board Variant Parts KV-28FC60/28FC60/Z

< CAPACITOR >

C6130	1-163-259-91	CERAMIC CHIP	220PF	5%	50V
C6134	1-102-508-91	CERAMIC CHIP	10PF	0.5PF	50V

< RESISTOR >

R6107	1-216-657-11	METAL CHIP	1.8K	0.50%	1/10W
R6108	1-216-657-11	METAL CHIP	1.8K	0.50%	1/10W
R6127	1-216-659-11	METAL CHIP	2.2K	0.50%	1/10W
R6130	1-218-768-11	METAL CHIP	470K	0.50%	1/10W
R6141	1-216-683-11	METAL CHIP	22K	0.50%	1/10W
R6142	1-216-670-11	METAL CHIP	6.2K	0.50%	1/10W
R6144	1-216-105-91	RES,CHIP	220K	5%	1/10W
R6145	1-216-053-00	RES,CHIP	1.5K	5%	1/10W
R6154	1-216-067-00	RES,CHIP	5.6K	5%	1/10W
R6158	1-216-659-11	METAL CHIP	2.2K	0.50%	1/10W
R6159	1-216-659-11	METAL CHIP	2.2K	0.50%	1/10W
R6161	1-216-671-11	METAL CHIP	6.8K	0.50%	1/10W
R6174	1-216-075-00	RES,CHIP	12K	5%	1/10W
R6175	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R6176	1-216-295-91	SHORT	0		
R6179	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R6186	1-216-045-00	RES,CHIP	680	5%	1/10W
R6189	1-216-059-00	RES,CHIP	2.7K	5%	1/10W
R6193	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
R6198	1-216-089-00	RES,CHIP	47K	5%	1/10W
R6200	1-216-695-11	METAL CHIP	68K	0.50%	1/10W
R6206	1-216-107-00	RES,CHIP	270K	5%	1/10W
R6207	1-216-113-00	RES,CHIP	470K	5%	1/10W
R6265	1-216-101-91	RES,CHIP	150K	5%	1/10W
R6268	1-216-081-00	RES,CHIP	22K	5%	1/10W
R6276	1-216-677-11	METAL CHIP	12K	0.50%	1/10W
R6277	1-216-677-11	METAL CHIP	12K	0.50%	1/10W
R6284	1-216-113-00	RES,CHIP	470K	5%	1/10W
R6286	1-216-073-00	RES,CHIP	10K	5%	1/10W
R6287	1-216-073-00	RES,CHIP	10K	5%	1/10W
R6370	1-216-675-91	METAL CHIP	10K	0.50%	1/10W
R6428	1-216-103-00	RES,CHIP	180K	5%	1/10W
R6431	1-216-115-00	RES,CHIP	560K	5%	1/10W

D1 Board Variant Parts KV-32FC60/32FC60/Z

< RESISTOR >

R6107	1-216-659-11	METAL CHIP	2.2K	0.50%	1/10W
R6108	1-216-659-11	METAL CHIP	2.2K	0.50%	1/10W
R6127	1-216-663-11	METAL CHIP	3.3K	0.50%	1/10W
R6130	1-218-769-11	METAL CHIP	510K	0.50%	1/10W
R6141	1-216-679-11	METAL CHIP	15K	0.50%	1/10W
R6142	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W
R6144	1-216-099-00	RES, CHIP	120K	5%	1/10W
R6145	1-216-055-00	RES, CHIP	1.8K	5%	1/10W
R6154	1-216-049-91	RES, CHIP	1K	5%	1/10W
R6158	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W
R6159	1-216-295-91	SHORT	0		
R6161	1-216-673-11	METAL CHIP	8.2K	0.50%	1/10W
R6174	1-216-081-00	RES, CHIP	22K	5%	1/10W
R6175	1-216-069-00	RES, CHIP	6.8K	5%	1/10W
R6176	1-216-071-00	RES, CHIP	8.2K	5%	1/10W
R6179	1-216-295-91	SHORT	0		
R6186	1-216-063-91	RES, CHIP	3.9K	5%	1/10W
R6189	1-216-295-91	SHORT	0		
R6198	1-216-081-00	RES, CHIP	22K	5%	1/10W

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REF. NO.	PART.NO	DESCRIPTION			REMARK
R6206	1-216-105-91	RES, CHIP	220K	5%	1/10W
R6207	1-216-105-91	RES, CHIP	220K	5%	1/10W
R6265	1-216-105-91	RES, CHIP	220K	5%	1/10W
R6266	1-216-113-00	RES, CHIP	470K	5%	1/10W
R6268	1-216-093-91	RES, CHIP	68K	5%	1/10W
R6276	1-216-686-11	METAL CHIP	30K	0.50%	1/10W
R6277	1-216-686-11	METAL CHIP	30K	0.50%	1/10W
R6284	1-216-109-00	RES, CHIP	330K	5%	1/10W
R6286	1-216-071-00	RES, CHIP	8.2K	5%	1/10W
R6287	1-216-081-00	RES, CHIP	22K	5%	1/10W
R6370	1-216-677-11	METAL CHIP	12K	0.50%	1/10W
R6428	1-216-101-00	RES, CHIP	150K	5%	1/10W
R6431	1-216-113-00	RES, CHIP	470K	5%	1/10W

*A-1644-103-A VM Board, Complete

1-675-177-11 PWB,VM
4-382-854-11 SCREW (M3X10), P, SW (+)

< CAPACITOR >

C5400	1-107-883-11	ELECT	330MF	20%	16V
C5401	1-126-935-11	ELECT	470MF	20%	16V
C5402	1-137-370-11	FILM	0.01MF	5%	50V
C5403	1-126-935-11	ELECT	470MF	20%	6.3V
C5405	1-126-933-11	ELECT	100MF	20%	16V
C5406	1-126-935-11	ELECT	470MF	20%	6.3V
C5407	1-104-989-91	FILM	0.0022MF	5%	200V
C5408	1-104-989-91	FILM	0.0022MF	5%	200V
C5409	1-107-649-11	ELECT	2.2MF	20%	250V
C5410	1-130-471-00	FILM	0.001MF	5%	50V
C5411	1-130-471-00	FILM	0.001MF	5%	50V
C5412	1-126-933-11	ELECT	100MF	20%	16V
C5413	1-126-933-11	ELECT	100MF	20%	16V
C5414	1-107-652-11	ELECT	10MF	20%	250V
C5415	1-107-363-91	FILM	0.0068MF	10%	200V
C5416	1-102-106-00	CERAMIC	100PF	10%	50V
C5419	1-101-880-00	CERAMIC	47PF	5%	50V

< CONNECTOR >

CN5402	*1-568-878-51	PIN, CONNECTOR 3P
CN5444	*1-770-723-11	CONNECTOR, BOARD TO BOARD 8P
CN5602	*1-568-881-51	PIN, CONNECTOR 6P

< DIODE >

D5400	8-719-991-33	DIODE 1SS133T-77
D5401	8-719-510-02	DIODE D1NS4
D5402	8-719-991-33	DIODE 1SS133T-77
D5403	8-719-991-33	DIODE 1SS133T-77
D5404	8-719-991-33	DIODE 1SS133T-77
D5405	8-719-924-11	DIODE MTZJ-T-77-22
D5406	8-719-924-11	DIODE MTZJ-T-77-22

< FERRITE BEAD >

FB5400	1-410-397-21	FERRITE	1.1UH
FB5401	1-410-396-41	FERRITE	0.45UH

< COIL >

L5400	1-410-784-41	INDUCTOR	0.18UH

< TRANSISTOR >

Q5400	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q5401	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q5402	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q5403	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q5404	8-729-026-39	TRANSISTOR 2SA933AS-QT
Q5405	8-729-026-39	TRANSISTOR 2SA933AS-QT
Q5406	8-729-045-05	TRANSISTOR 2SA2005
Q5407	8-729-045-04	TRANSISTOR 2SC5511

< RESISTOR >

R5400	1-249-401-11	CARBON	47	5%	1/4W	
R5401	1-249-421-11	CARBON	2.2K	5%	1/4W	
R5402	1-249-413-11	CARBON	470	5%	1/4W	
R5403	1-249-393-11	CARBON	10	5%	1/4W	F
R5404	1-249-417-11	CARBON	1K	5%	1/4W	
R5405	1-249-425-11	CARBON	4.7K	5%	1/4W	
R5406	1-249-425-11	CARBON	4.7K	5%	1/4W	
R5407	1-249-399-11	CARBON	33	5%	1/4W	
R5408	1-247-807-31	CARBON	100	5%	1/4W	
R5409	1-247-815-91	CARBON	220	5%	1/4W	
R5410	1-249-401-11	CARBON	47	5%	1/4W	
R5411	1-249-401-11	CARBON	47	5%	1/4W	
R5412	1-249-429-11	CARBON	10K	5%	1/4W	
R5413	1-249-414-11	CARBON	560	5%	1/4W	F
R5414	1-249-432-11	CARBON	18K	5%	1/4W	
R5415	1-260-311-11	CARBON	39	5%	1/2W	
R5416	1-249-383-11	CARBON	1.5	5%	1/4W	F
R5417	1-249-432-11	CARBON	18K	5%	1/4W	
R5418	1-249-414-11	CARBON	560	5%	1/4W	
R5419	1-249-421-11	CARBON	2.2K	5%	1/4W	
R5420	1-249-421-11	CARBON	2.2K	5%	1/4W	
R5421	1-249-383-11	CARBON	1.5	5%	1/4W	F
R5422	1-249-400-11	CARBON	39	5%	1/4W	F
R5423	1-216-483-11	METAL OXIDE	2.7K	5%	3W	F
R5425	1-249-419-11	CARBON	1.5K	5%	1/4W	

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REF. NO.	PART.NO	DESCRIPTION	REMARK

***A-1646-193-A H2 Board, Complete**

	< CAPACITOR >		
C7150	1-126-969-11	ELECT 220MF 20% 50V	
	< CONNECTOR >		
CN1800	*1-564-519-11	PLUG, CONNECTOR 4P	
	< DIODE >		
D7150	8-719-030-11	DIODE SLA-570KT3F	
	4-203-258-11	HOLDER, LED (D7150)	
	< IC >		
IC7150	8-749-014-59	IC TSOP1740KS1	
	< RESISTOR >		
R7150	1-247-815-91	CARBON 220 5% 1/4W	
R7151	1-249-411-11	CARBON 330 5% 1/4W	

***A-1646-194-A H3 Board, Complete**

	< CAPACITOR >		
C7825	1-137-372-11	FILM 0.022MF 5% 50V	
C7826	1-137-372-11	FILM 0.022MF 5% 50V	
	< CONNECTOR >		
CN1893	*1-564-519-11	PLUG, CONNECTOR 4P	
	< JACK >		
J7825	1-785-448-21	JACK	
	< COIL >		
L7825	1-414-183-41	INDUCTOR 10UH	
L7826	1-414-183-41	INDUCTOR 10UH	

***A-1646-195-A H4 Board, Complete**

	< CAPACITOR >		
C7800	1-101-810-00	CERAMIC 100PF 5% 500V	
C7801	1-101-810-00	CERAMIC 100PF 5% 500V	
	< CONNECTOR >		
CN1803	*1-564-522-11	PLUG, CONNECTOR 7P	
	< JACK >		
J7800	1-793-529-11	TERMINAL BLOCK, S	
	< RESISTOR >		
R7800	1-535-303-00	LEAD, JUMPER (5.0MM)	
R7801	1-249-417-11	CARBON 1K 5% 1/4W	
R7802	1-247-895-91	CARBON 470K 5% 1/4W	
R7803	1-247-895-91	CARBON 470K 5% 1/4W	
R7805	1-249-417-11	CARBON 1K 5% 1/4W	

***A-1648-026-A U Board, Complete**

	< CAPACITOR >		
C7961	1-101-005-00	CERAMIC 0.022MF 50V	
C7962	1-101-005-00	CERAMIC 0.022MF 50V	
	< CONNECTOR >		
CN7101	1-573-299-21	CONNECTOR, BOARD TO BOARD 10P	
CN7977	*1-564-519-11	PLUG, CONNECTOR 4P	
CN7988	*1-564-519-11	PLUG, CONNECTOR 4P	
CN7990	*1-564-518-11	PLUG, CONNECTOR 3P	
	< JACK >		
J7952	1-537-339-11	TERMINAL BOARD	
	< COIL >		
L7954	1-414-761-11	INDUCTOR 1UH	
L7956	1-414-761-11	INDUCTOR 1UH	

***A-1651-119-A J Board, Complete**

	< CAPACITOR >		
C8105	1-126-933-11	ELECT 100MF 20% 16V	
C8106	1-126-933-11	ELECT 100MF 20% 16V	
C8107	1-126-935-11	ELECT 470MF 20% 16V	
C8108	1-126-933-11	ELECT 100MF 20% 16V	
C8109	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C8110	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C8111	1-126-933-11	ELECT 100MF 20% 16V	
C8112	1-128-551-11	ELECT 22MF 20% 25V	
C8144	1-107-823-11	CERAMIC CHIP 0.47MF 10% 16V	
C8145	1-107-823-11	CERAMIC CHIP 0.47MF 10% 16V	
C8200	1-104-664-11	ELECT 47MF 20% 16V	
C8201	1-163-241-11	CERAMIC CHIP 39PF 5% 50V	
C8202	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C8203	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C8204	1-164-506-11	CERAMIC CHIP 4.7MF 16V	

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REF. NO.	PART.NO	DESCRIPTION	REMARK
C8205	1-165-319-11	CERAMIC CHIP 0.1MF	50V
C8208	1-164-506-11	CERAMIC CHIP 4.7MF	16V
C8209	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C8210	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C8211	1-163-243-11	CERAMIC CHIP 47PF	5% 50V
C8212	1-163-243-11	CERAMIC CHIP 47PF	5% 50V
C8213	1-163-087-00	CERAMIC CHIP 4PF	0.25PF 50V
C8214	1-163-087-00	CERAMIC CHIP 4PF	0.25PF 50V
C8215	1-163-243-11	CERAMIC CHIP 47PF	5% 50V
C8216	1-126-933-11	ELECT 100MF	20% 16V
C8217	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C8218	1-126-964-11	ELECT 10MF	20% 50V
C8219	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C8220	1-126-964-11	ELECT 10MF	20% 50V
C8221	1-104-664-11	ELECT 47MF	20% 16V
C8222	1-104-664-11	ELECT 47MF	20% 16V
C8223	1-104-664-11	ELECT 47MF	20% 16V
C8224	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C8225	1-104-664-11	ELECT 47MF	20% 16V
C8227	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
C8228	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
C8229	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
C8230	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
C8231	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
C8232	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C8233	1-104-664-11	ELECT 47MF	20% 16V
C8234	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
C8235	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
C8236	1-126-933-11	ELECT 100MF	20% 16V
C8237	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
C8238	1-164-505-11	CERAMIC CHIP 2.2MF	16V
C8239	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
C8240	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
C8241	1-126-964-11	ELECT 10MF	20% 50V
C8242	1-104-664-11	ELECT 47MF	20% 16V
C8243	1-110-501-11	CERAMIC CHIP 0.33MF	10% 16V
C8301	1-163-037-11	CERAMIC CHIP 0.022MF	10% 50V
C8302	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
C8303	1-126-933-11	ELECT 100MF	20% 16V
C8304	1-115-340-11	CERAMIC CHIP 0.22MF	10% 25V
C8305	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
C8306	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
C8307	1-115-340-11	CERAMIC CHIP 0.22MF	10% 25V
C8308	1-115-340-11	CERAMIC CHIP 0.22MF	10% 25V
C8309	1-126-961-11	ELECT 2.2MF	20% 50V
C8311	1-104-664-11	ELECT 47MF	20% 16V
C8313	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
C8314	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
C8318	1-104-664-11	ELECT 47MF	20% 16V
C8321	1-104-664-11	ELECT 47MF	20% 16V
C8322	1-163-227-11	CERAMIC CHIP 10PF	0.5PF 50V
C8323	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C8324	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C8325	1-126-964-11	ELECT 10MF	20% 50V
C8326	1-104-664-11	ELECT 47MF	20% 16V
C8327	1-107-682-11	CERAMIC CHIP 1MF	10% 16V
C8328	1-104-664-11	ELECT 47MF	20% 16V
C8329	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
C8331	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
C8332	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C8333	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C8334	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C8335	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
C8336	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C8337	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C8338	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C8345	1-164-346-11	CERAMIC CHIP 1MF	16V
C8346	1-126-963-11	ELECT 4.7MF	20% 50V
C8424	1-115-340-11	CERAMIC CHIP 0.22MF	10% 25V
C8501	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
C8503	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C8504	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C8505	1-126-933-11	ELECT 100MF	20% 16V
C8506	1-163-037-11	CERAMIC CHIP 0.022MF	10% 50V
C8507	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C8508	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C8509	1-126-933-11	ELECT 100MF	20% 16V
C8510	1-104-664-11	ELECT 47MF	20% 16V
C8511	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C8512	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C8513	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C8514	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C8515	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C8516	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C8517	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C8518	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C8519	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C8520	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C8521	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C8601	1-115-340-11	CERAMIC CHIP 0.22MF	10% 25V
C8602	1-115-340-11	CERAMIC CHIP 0.22MF	10% 25V
C8605	1-115-340-11	CERAMIC CHIP 0.22MF	10% 25V
C8606	1-115-340-11	CERAMIC CHIP 0.22MF	10% 25V
C8607	1-104-664-11	ELECT 47MF	20% 16V

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REF. NO.	PART.NO	DESCRIPTION			REMARK
C8608	1-104-664-11	ELECT	47MF	20%	16V
C8609	1-115-340-11	CERAMIC CHIP	0.22MF	10%	25V
C8610	1-115-340-11	CERAMIC CHIP	0.22MF	10%	25V
C8611	1-115-340-11	CERAMIC CHIP	0.22MF	10%	25V
C8612	1-115-340-11	CERAMIC CHIP	0.22MF	10%	25V
C8613	1-104-664-11	ELECT	47MF	20%	16V
C8614	1-104-664-11	ELECT	47MF	20%	16V
C8700	1-126-964-11	ELECT	10MF	20%	50V
C8701	1-104-664-11	ELECT	47MF	20%	16V
C8702	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C8703	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C8704	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V
C8705	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V
C8706	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C8707	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C8708	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C8709	1-126-964-11	ELECT	10MF	20%	50V
C8710	1-126-933-11	ELECT	100MF	20%	16V
C8801	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C8802	1-104-664-11	ELECT	47MF	20%	16V
C8803	1-104-664-11	ELECT	47MF	20%	16V
C8804	1-126-933-11	ELECT	100MF	20%	16V
C8806	1-163-253-11	CERAMIC CHIP	120PF	5%	50V
C8807	1-163-249-11	CERAMIC CHIP	82PF	5%	50V
C8808	1-163-249-11	CERAMIC CHIP	82PF	5%	50V
C8809	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C8810	1-164-222-11	CERAMIC CHIP	0.22MF		25V
C8811	1-164-222-11	CERAMIC CHIP	0.22MF		25V
C8812	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V
C8814	1-104-664-11	ELECT	47MF	20%	25V
C8816	1-163-081-00	CERAMIC CHIP	0.22MF		25V
C8822	1-126-933-11	ELECT	100MF	20%	16V
C8825	1-115-340-11	CERAMIC CHIP	0.22MF	10%	25V
C8826	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C8827	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C8828	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C8829	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C8830	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C8831	1-126-964-11	ELECT	10MF	20%	50V
C8832	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C8833	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C8834	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C8835	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C8836	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C8837	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C8838	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C8839	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C8840	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C8841	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C8842	1-104-664-11	ELECT	47MF	20%	16V
C8843	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C8844	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V
C8846	1-126-933-11	ELECT	100MF	20%	16V
C8847	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C8849	1-164-346-11	CERAMIC CHIP	1MF		16V
C8850	1-164-346-11	CERAMIC CHIP	1MF		16V
C8851	1-126-967-11	ELECT	47MF	20%	50V
C8852	1-164-346-11	CERAMIC CHIP	1MF		16V
C8853	1-126-967-11	ELECT	47MF	20%	50V
C8854	1-164-346-11	CERAMIC CHIP	1MF		16V
C8855	1-164-346-11	CERAMIC CHIP	1MF		16V
C8856	1-164-346-11	CERAMIC CHIP	1MF		16V
C8857	1-164-346-11	CERAMIC CHIP	1MF		16V
C8858	1-164-346-11	CERAMIC CHIP	1MF		16V
C8859	1-164-346-11	CERAMIC CHIP	1MF		16V
C8860	1-164-346-11	CERAMIC CHIP	1MF		16V
C8861	1-164-346-11	CERAMIC CHIP	1MF		16V
C8862	1-164-346-11	CERAMIC CHIP	1MF		16V
C8863	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C8864	1-164-346-11	CERAMIC CHIP	1MF		16V
C8865	1-104-664-11	ELECT	47MF	20%	16V
C8866	1-164-346-11	CERAMIC CHIP	1MF		16V
C8867	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C8868	1-126-964-11	ELECT	10MF	20%	50V
C8869	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C8900	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C8901	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C8902	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C8903	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C8904	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C8905	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C8906	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C8907	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C8908	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C8909	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C8910	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C8911	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C8914	1-126-933-11	ELECT	100MF	20%	16V
C8977	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C8978	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
		< FILTER >			
CF8200	1-409-327-00	TRAP, CERAMIC (6.5MHZ)			

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REF. NO.	PART.NO	DESCRIPTION	REMARK
	< CONNECTOR >		
CN8101	1-695-302-11	CONNECTOR, BOARD TO BOARD 50P	
CN8102	*1-564-518-11	PLUG, CONNECTOR 3P	
CN8900	1-561-534-41	SOCKET, PIN 21P	
CN8901	1-695-293-11	SOCKET 21P	
CN8902	1-695-293-11	SOCKET 21P	
	< DIODE >		
D8200	8-719-158-49	DIODE RD12SB2	
D8201	8-719-158-49	DIODE RD12SB2	
D8202	8-719-158-49	DIODE RD12SB2	
D8203	8-719-158-49	DIODE RD12SB2	
D8801	8-719-158-49	DIODE RD12SB2	
D8802	8-719-158-49	DIODE RD12SB2	
D8803	8-719-158-49	DIODE RD12SB2	
D8804	8-719-158-49	DIODE RD12SB2	
D8805	8-719-158-49	DIODE RD12SB2	
D8806	8-719-158-49	DIODE RD12SB2	
D8807	8-719-158-49	DIODE RD12SB2	
D8808	8-719-158-49	DIODE RD12SB2	
D8809	8-719-158-49	DIODE RD12SB2	
D8810	8-719-158-49	DIODE RD12SB2	
D8811	8-719-158-49	DIODE RD12SB2	
D8812	8-719-158-49	DIODE RD12SB2	
D8813	8-719-158-49	DIODE RD12SB2	
D8814	8-719-158-49	DIODE RD12SB2	
D8900	8-719-056-85	DIODE UDZ-TE-17-8.2B	
D8901	8-719-158-49	DIODE RD12SB2	
D8902	8-719-056-85	DIODE UDZ-TE-17-8.2B	
D8903	8-719-056-85	DIODE UDZ-TE-17-8.2B	
D8904	8-719-056-85	DIODE UDZ-TE-17-8.2B	
D8905	8-719-056-85	DIODE UDZ-TE-17-8.2B	
D8906	8-719-056-85	DIODE UDZ-TE-17-8.2B	
D8907	8-719-158-49	DIODE RD12SB2	
D8908	8-719-056-85	DIODE UDZ-TE-17-8.2B	
D8909	8-719-056-85	DIODE UDZ-TE-17-8.2B	
D8910	8-719-056-85	DIODE UDZ-TE-17-8.2B	
D8911	8-719-056-85	DIODE UDZ-TE-17-8.2B	
D8912	8-719-158-49	DIODE RD12SB2	
D8913	8-719-158-49	DIODE RD12SB2	
D8914	8-719-158-49	DIODE RD12SB2	
D8915	8-719-158-49	DIODE RD12SB2	
	< FILTER >		
FL8200	1-236-071-11	ENCAPSULATED COMPONENT	
FL8201	1-233-764-21	FILTER	
FL8203	1-236-071-11	ENCAPSULATED COMPONENT	
FL8302	1-236-071-11	ENCAPSULATED COMPONENT	
FL8304	1-236-071-11	ENCAPSULATED COMPONENT	
FL8308	1-236-071-11	ENCAPSULATED COMPONENT	
FL8500	1-236-071-11	ENCAPSULATED COMPONENT	
FL8501	1-236-071-11	ENCAPSULATED COMPONENT	
FL8502	1-233-765-21	FILTER	
FL8503	1-233-768-21	FILTER	
FL8504	1-233-766-21	FILTER	
FL8700	1-236-071-11	ENCAPSULATED COMPONENT	
FL8701	1-236-071-11	ENCAPSULATED COMPONENT	
FL8801	1-236-071-11	ENCAPSULATED COMPONENT	
FL8802	1-236-071-11	ENCAPSULATED COMPONENT	
	< IC >		
IC8101	8-759-576-76	IC TDA2822D013TR	
IC8151	8-752-072-94	IC CXA1875AM-T4	
IC8200	8-759-544-10	IC MSP3410D-QA-B4	
IC8201	8-759-701-36	IC NJM3403AM	
IC8202	8-759-908-15	IC TL431CLP	
IC8301	8-752-094-47	IC CXA2123Q-T6	
IC8302	8-759-485-79	IC TC7SET08FU(TE85L)	
IC8500	8-752-390-37	IC CXD2064Q-T6	
IC8601	8-759-576-74	IC LF90CDT-TR	
IC8602	8-759-576-72	IC LF50CDT-TR	
IC8603	8-759-576-72	IC LF50CDT-TR	
IC8604	8-759-576-72	IC LF50CDT-TR	
IC8700	8-752-390-35	IC CXD2057M-T6	
IC8801	8-752-090-38	IC CXA2129Q-TL	
IC8802	8-759-385-76	IC MC14052BDR2	
	< JACK >		
J8901	1-774-747-11	JACK BLOCK, PIN	
	< COIL >		
L8150	1-414-757-11	INDUCTOR 100UH	
L8200	1-412-006-42	INDUCTOR CHIP 10UH	
L8201	1-412-064-11	INDUCTOR CHIP 100UH	
L8801	1-412-751-11	INDUCTOR 18UH	
	< TRANSISTOR >		
Q8100	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q8101	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q8156	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q8157	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q8200	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q8201	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q8202	8-729-120-28	TRANSISTOR 2SC1623-L5L6	

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REF. NO.	PART.NO	DESCRIPTION	REMARK
Q8300	8-729-216-22	TRANSISTOR 2SA1162-G	
Q8302	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q8303	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q8305	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q8306	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q8308	8-729-038-96	TRANSISTOR IMZ1A-T109	
Q8309	8-729-038-96	TRANSISTOR IMZ1A-T109	
Q8310	8-729-038-96	TRANSISTOR IMZ1A-T109	
Q8501	8-729-216-22	TRANSISTOR 2SA1162-G	
Q8503	8-729-216-22	TRANSISTOR 2SA1162-G	
Q8504	8-729-216-22	TRANSISTOR 2SA1162-G	
Q8700	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q8801	8-729-216-22	TRANSISTOR 2SA1162-G	
Q8802	8-729-216-22	TRANSISTOR 2SA1162-G	
Q8804	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q8805	8-729-216-22	TRANSISTOR 2SA1162-G	
Q8807	8-729-216-22	TRANSISTOR 2SA1162-G	
Q8808	8-729-039-67	TRANSISTOR BSS83	
Q8809	8-729-216-22	TRANSISTOR 2SA1162-G	
Q8812	8-729-038-96	TRANSISTOR IMZ1A-T109	
Q8817	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q8818	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q8819	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q8901	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q8902	8-729-216-22	TRANSISTOR 2SA1162-G	
		< RESISTOR >	
JR8401	1-216-295-91	SHORT 0	
R8103	1-216-075-00	RES,CHIP 12K 5%	1/10W
R8104	1-216-075-00	RES,CHIP 12K 5%	1/10W
R8105	1-216-057-00	RES,CHIP 2.2K 5%	1/10W
R8106	1-216-081-00	RES,CHIP 22K 5%	1/10W
R8107	1-216-081-00	RES,CHIP 22K 5%	1/10W
R8108	1-216-057-00	RES,CHIP 2.2K 5%	1/10W
R8109	1-249-389-11	CARBON 4.7 5%	1/4W F
R8110	1-249-389-11	CARBON 4.7 5%	1/4W F
R8111	1-216-033-00	RES,CHIP 220 5%	1/10W
R8112	1-216-033-00	RES,CHIP 220 5%	1/10W
R8115	1-216-029-00	RES,CHIP 150 5%	1/10W
R8116	1-216-029-00	RES,CHIP 150 5%	1/10W
R8117	1-216-029-00	RES,CHIP 150 5%	1/10W
R8118	1-216-029-00	RES,CHIP 150 5%	1/10W
R8165	1-216-295-91	SHORT 0	
R8167	1-216-025-91	RES,CHIP 100 5%	1/10W
R8168	1-216-025-91	RES,CHIP 100 5%	1/10W
R8174	1-216-065-91	RES,CHIP 4.7K 5%	1/10W
R8175	1-216-065-91	RES,CHIP 4.7K 5%	1/10W

REF. NO.	PART.NO	DESCRIPTION	REMARK
R8200	1-216-049-91	RES,CHIP 1K 5%	1/10W
R8201	1-216-295-91	SHORT 0	
R8202	1-216-021-00	RES,CHIP 68 5%	1/10W
R8203	1-216-069-00	RES,CHIP 6.8K 5%	1/10W
R8204	1-216-049-91	RES,CHIP 1K 5%	1/10W
R8205	1-216-069-00	RES,CHIP 6.8K 5%	1/10W
R8206	1-216-049-91	RES,CHIP 1K 5%	1/10W
R8208	1-216-037-00	RES,CHIP 330 5%	1/10W
R8209	1-216-659-11	METAL CHIP 2.2K 0.50%	1/10W
R8210	1-216-025-91	RES,CHIP 100 5%	1/10W
R8211	1-216-295-91	SHORT 0	
R8212	1-216-295-91	SHORT 0	
R8213	1-216-295-91	SHORT 0	
R8214	1-216-295-91	SHORT 0	
R8216	1-216-025-91	RES,CHIP 100 5%	1/10W
R8217	1-216-025-91	RES,CHIP 100 5%	1/10W
R8218	1-216-049-91	RES,CHIP 1K 5%	1/10W
R8219	1-216-025-91	RES,CHIP 100 5%	1/10W
R8220	1-216-025-91	RES,CHIP 100 5%	1/10W
R8221	1-216-025-91	RES,CHIP 100 5%	1/10W
R8222	1-216-295-91	SHORT 0	
R8223	1-216-089-91	RES,CHIP 47K 5%	1/10W
R8224	1-216-089-91	RES,CHIP 47K 5%	1/10W
R8225	1-216-089-91	RES,CHIP 47K 5%	1/10W
R8226	1-216-089-91	RES,CHIP 47K 5%	1/10W
R8227	1-216-089-91	RES,CHIP 47K 5%	1/10W
R8228	1-216-089-91	RES,CHIP 47K 5%	1/10W
R8229	1-216-295-91	SHORT 0	
R8230	1-216-081-00	RES,CHIP 22K 5%	1/10W
R8231	1-216-089-91	RES,CHIP 47K 5%	1/10W
R8232	1-216-089-91	RES,CHIP 47K 5%	1/10W
R8233	1-216-089-91	RES,CHIP 47K 5%	1/10W
R8234	1-216-089-91	RES,CHIP 47K 5%	1/10W
R8235	1-216-089-91	RES,CHIP 47K 5%	1/10W
R8236	1-216-089-91	RES,CHIP 47K 5%	1/10W
R8237	1-216-043-91	RES,CHIP 560 5%	1/10W
R8238	1-216-063-91	RES,CHIP 3.9K 5%	1/10W
R8239	1-216-069-00	RES,CHIP 6.8K 5%	1/10W
R8240	1-216-651-11	METAL CHIP 1K 0.50%	1/10W
R8243	1-216-021-00	RES,CHIP 68 5%	1/10W
R8300	1-216-295-91	SHORT 0	
R8302	1-216-017-91	RES,CHIP 47 5%	1/10W
R8306	1-216-083-00	RES,CHIP 27K 5%	1/10W
R8307	1-216-049-91	RES,CHIP 1K 5%	1/10W
R8308	1-216-039-00	RES,CHIP 390 5%	1/10W
R8309	1-216-049-91	RES,CHIP 1K 5%	1/10W
R8310	1-216-037-00	RES,CHIP 330 5%	1/10W

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REF. NO.	PART.NO	DESCRIPTION			REMARK
R8312	1-216-091-00	RES,CHIP	56K	5%	1/10W
R8313	1-216-081-00	RES,CHIP	22K	5%	1/10W
R8314	1-216-295-91	SHORT	0		
R8316	1-216-037-00	RES,CHIP	330	5%	1/10W
R8317	1-216-295-91	SHORT	0		
R8318	1-216-295-91	SHORT	0		
R8319	1-216-295-91	SHORT	0		
R8320	1-216-041-00	RES,CHIP	470	5%	1/10W
R8322	1-216-049-91	RES,CHIP	1K	5%	1/10W
R8323	1-216-017-91	RES,CHIP	47	5%	1/10W
R8324	1-216-041-00	RES,CHIP	470	5%	1/10W
R8326	1-216-017-91	RES,CHIP	47	5%	1/10W
R8328	1-216-025-91	RES,CHIP	100	5%	1/10W
R8329	1-216-025-91	RES,CHIP	100	5%	1/10W
R8330	1-216-041-00	RES,CHIP	470	5%	1/10W
R8331	1-216-041-00	RES,CHIP	470	5%	1/10W
R8332	1-216-041-00	RES,CHIP	470	5%	1/10W
R8333	1-216-041-00	RES,CHIP	470	5%	1/10W
R8334	1-216-041-00	RES,CHIP	470	5%	1/10W
R8336	1-216-041-00	RES,CHIP	470	5%	1/10W
R8337	1-216-041-00	RES,CHIP	470	5%	1/10W
R8338	1-216-017-91	RES,CHIP	47	5%	1/10W
R8339	1-216-017-91	RES,CHIP	47	5%	1/10W
R8340	1-216-063-91	RES,CHIP	3.9K	5%	1/10W
R8341	1-216-041-00	RES,CHIP	470	5%	1/10W
R8344	1-216-091-00	RES,CHIP	56K	5%	1/10W
R8345	1-216-079-00	RES,CHIP	18K	5%	1/10W
R8346	1-216-091-00	RES,CHIP	56K	5%	1/10W
R8347	1-216-079-00	RES,CHIP	18K	5%	1/10W
R8506	1-216-091-00	RES,CHIP	56K	5%	1/10W
R8507	1-216-295-91	SHORT	0		
R8508	1-216-043-91	RES,CHIP	560	5%	1/10W
R8509	1-216-031-91	RES,CHIP	180	5%	1/10W
R8510	1-216-067-00	RES,CHIP	5.6K	5%	1/10W
R8511	1-216-049-91	RES,CHIP	1K	5%	1/10W
R8512	1-216-295-91	SHORT	0		
R8514	1-216-017-91	RES,CHIP	47	5%	1/10W
R8517	1-216-295-91	SHORT	0		
R8519	1-216-037-00	RES,CHIP	330	5%	1/10W
R8520	1-216-041-00	RES,CHIP	470	5%	1/10W
R8521	1-216-061-00	RES,CHIP	3.3K	5%	1/10W
R8522	1-216-041-00	RES,CHIP	470	5%	1/10W
R8523	1-216-033-00	RES,CHIP	220	5%	1/10W
R8524	1-216-295-91	SHORT	0		
R8526	1-216-061-00	RES,CHIP	3.3K	5%	1/10W
R8527	1-216-047-91	RES,CHIP	820	5%	1/10W
R8528	1-216-047-91	RES,CHIP	820	5%	1/10W

REF. NO.	PART.NO	DESCRIPTION			REMARK
R8529	1-216-055-00	RES,CHIP	1.8K	5%	1/10W
R8530	1-216-051-00	RES,CHIP	1.2K	5%	1/10W
R8531	1-216-053-00	RES,CHIP	1.5K	5%	1/10W
R8532	1-216-049-91	RES,CHIP	1K	5%	1/10W
R8700	1-216-049-91	RES,CHIP	1K	5%	1/10W
R8701	1-216-073-00	RES,CHIP	10K	5%	1/10W
R8702	1-216-025-91	RES,CHIP	100	5%	1/10W
R8703	1-216-025-91	RES,CHIP	100	5%	1/10W
R8704	1-216-025-91	RES,CHIP	100	5%	1/10W
R8705	1-216-295-00	SHORT	0		
R8706	1-216-049-91	RES,CHIP	1K	5%	1/10W
R8707	1-216-089-91	RES,CHIP	47K	5%	1/10W
R8708	1-216-081-00	RES,CHIP	22K	5%	1/10W
R8709	1-216-059-91	RES,CHIP	2.7K	5%	1/10W
R8801	1-216-089-91	RES,CHIP	47K	5%	1/10W
R8802	1-216-073-00	RES,CHIP	10K	5%	1/10W
R8803	1-216-089-91	RES,CHIP	47K	5%	1/10W
R8804	1-216-073-00	RES,CHIP	10K	5%	1/10W
R8805	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R8806	1-216-085-00	RES,CHIP	33K	5%	1/10W
R8807	1-216-089-91	RES,CHIP	47K	5%	1/10W
R8810	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R8811	1-216-037-00	RES,CHIP	330	5%	1/10W
R8812	1-216-037-00	RES,CHIP	330	5%	1/10W
R8813	1-216-073-00	RES,CHIP	10K	5%	1/10W
R8816	1-216-089-91	RES,CHIP	47K	5%	1/10W
R8817	1-216-073-00	RES,CHIP	10K	5%	1/10W
R8818	1-216-049-91	RES,CHIP	1K	5%	1/10W
R8819	1-216-041-00	RES,CHIP	470	5%	1/10W
R8821	1-216-089-91	RES,CHIP	47K	5%	1/10W
R8822	1-216-073-00	RES,CHIP	10K	5%	1/10W
R8823	1-216-073-00	RES,CHIP	10K	5%	1/10W
R8825	1-216-025-91	RES,CHIP	100	5%	1/10W
R8826	1-216-051-00	RES,CHIP	1.2K	5%	1/10W
R8833	1-216-041-00	RES,CHIP	470	5%	1/10W
R8834	1-216-041-00	RES,CHIP	470	5%	1/10W
R8835	1-216-041-00	RES,CHIP	470	5%	1/10W
R8836	1-216-025-91	RES,CHIP	100	5%	1/10W
R8846	1-216-295-91	SHORT	0		
R8854	1-216-029-91	RES,CHIP	150	5%	1/10W
R8855	1-216-031-91	RES,CHIP	180	5%	1/10W
R8856	1-216-055-91	RES,CHIP	1.8K	5%	1/10W
R8857	1-216-089-91	RES,CHIP	47K	5%	1/10W
R8858	1-216-079-00	RES,CHIP	18K	5%	1/10W
R8859	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R8862	1-216-295-91	SHORT	0		
R8864	1-216-295-91	SHORT	0		

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REF. NO.	PART.NO	DESCRIPTION			REMARK
R8865	1-216-023-00	RES,CHIP	82	5%	1/10W
R8866	1-216-022-00	RES,CHIP	75	5%	1/10W
R8867	1-216-049-91	RES,CHIP	1K	5%	1/10W
R8868	1-216-033-00	RES,CHIP	220	5%	1/10W
R8869	1-216-033-00	RES,CHIP	220	5%	1/10W
R8870	1-216-295-91	SHORT	0		
R8871	1-216-049-91	RES,CHIP	1K	5%	1/10W
R8872	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R8873	1-216-113-00	RES,CHIP	470K	5%	1/10W
R8874	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R8875	1-216-113-00	RES,CHIP	470K	5%	1/10W
R8876	1-216-093-91	RES,CHIP	68K	5%	1/10W
R8877	1-216-093-91	RES,CHIP	68K	5%	1/10W
R8878	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R8879	1-216-689-11	METAL CHIP	39K	0.50%	1/10W
R8881	1-216-089-91	RES,CHIP	47K	5%	1/10W
R8882	1-216-079-00	RES,CHIP	18K	5%	1/10W
R8883	1-216-663-11	METAL CHIP	3.3K	0.50%	1/10W
R8885	1-216-663-11	METAL CHIP	3.3K	0.50%	1/10W
R8888	1-216-033-00	RES,CHIP	220	5%	1/10W
R8889	1-216-033-00	RES,CHIP	220	5%	1/10W
R8891	1-216-295-91	SHORT	0		
R8892	1-216-295-91	SHORT	0		
R8893	1-216-295-91	SHORT	0		
R8900	1-216-039-00	RES,CHIP	390	5%	1/10W
R8901	1-216-049-91	RES,CHIP	1K	5%	1/10W
R8902	1-216-039-00	RES,CHIP	390	5%	1/10W
R8903	1-216-089-91	RES,CHIP	47K	5%	1/10W
R8904	1-216-089-91	RES,CHIP	47K	5%	1/10W
R8905	1-216-113-00	RES,CHIP	470K	5%	1/10W
R8906	1-216-035-00	RES,CHIP	270	5%	1/10W
R8907	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R8908	1-216-035-00	RES,CHIP	270	5%	1/10W
R8909	1-216-049-91	RES,CHIP	1K	5%	1/10W
R8911	1-216-025-91	RES,CHIP	100	5%	1/10W
R8913	1-216-022-00	RES,CHIP	75	5%	1/10W
R8914	1-216-071-00	RES,CHIP	8.2K	5%	1/10W
R8915	1-216-022-00	RES,CHIP	75	5%	1/10W
R8916	1-216-033-00	RES,CHIP	220	5%	1/10W
R8917	1-216-033-00	RES,CHIP	220	5%	1/10W
R8918	1-216-113-00	RES,CHIP	470K	5%	1/10W
R8919	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R8922	1-216-022-00	RES,CHIP	75	5%	1/10W
R8923	1-216-022-00	RES,CHIP	75	5%	1/10W
R8924	1-216-022-00	RES,CHIP	75	5%	1/10W
R8925	1-216-022-00	RES,CHIP	75	5%	1/10W
R8926	1-216-033-00	RES,CHIP	220	5%	1/10W
R8927	1-216-033-00	RES,CHIP	220	5%	1/10W
R8928	1-216-033-00	RES,CHIP	220	5%	1/10W
R8929	1-216-039-00	RES,CHIP	390	5%	1/10W
R8930	1-216-049-91	RES,CHIP	1K	5%	1/10W
R8931	1-216-039-00	RES,CHIP	390	5%	1/10W
R8932	1-216-049-91	RES,CHIP	1K	5%	1/10W
R8933	1-216-089-91	RES,CHIP	47K	5%	1/10W
R8934	1-216-089-91	RES,CHIP	47K	5%	1/10W
R8935	1-216-113-00	RES,CHIP	470K	5%	1/10W
R8936	1-216-113-00	RES,CHIP	470K	5%	1/10W
R8937	1-216-035-00	RES,CHIP	270	5%	1/10W
R8938	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R8939	1-216-035-00	RES,CHIP	270	5%	1/10W
R8940	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R8941	1-216-025-91	RES,CHIP	100	5%	1/10W
R8942	1-216-009-91	RES,CHIP	22	5%	1/10W
R8943	1-216-022-00	RES,CHIP	75	5%	1/10W
R8944	1-216-071-00	RES,CHIP	8.2K	5%	1/10W
R8945	1-216-022-00	RES,CHIP	75	5%	1/10W
R8946	1-216-033-00	RES,CHIP	220	5%	1/10W
R8947	1-216-039-00	RES,CHIP	390	5%	1/10W
R8948	1-216-049-91	RES,CHIP	1K	5%	1/10W
R8949	1-216-022-00	RES,CHIP	75	5%	1/10W
R8950	1-216-089-91	RES,CHIP	47K	5%	1/10W
R8951	1-216-033-00	RES,CHIP	220	5%	1/10W
R8952	1-216-113-00	RES,CHIP	470K	5%	1/10W
R8953	1-216-035-00	RES,CHIP	270	5%	1/10W
R8954	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R8955	1-216-039-00	RES,CHIP	390	5%	1/10W
R8956	1-216-049-91	RES,CHIP	1K	5%	1/10W
R8957	1-216-025-91	RES,CHIP	100	5%	1/10W
R8958	1-216-089-91	RES,CHIP	47K	5%	1/10W
R8959	1-216-022-00	RES,CHIP	75	5%	1/10W
R8960	1-216-033-00	RES,CHIP	220	5%	1/10W
R8961	1-216-022-00	RES,CHIP	75	5%	1/10W
R8962	1-216-071-00	RES,CHIP	8.2K	5%	1/10W
R8963	1-216-113-00	RES,CHIP	470K	5%	1/10W
R8964	1-216-035-00	RES,CHIP	270	5%	1/10W
R8965	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R8968	1-216-022-91	RES,CHIP	75	5%	1/10W
R8969	1-216-033-00	RES,CHIP	220	5%	1/10W
R8974	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R8977	1-216-037-00	RES,CHIP	330	5%	1/10W
R8978	1-216-037-00	RES,CHIP	330	5%	1/10W
R8979	1-216-045-00	RES,CHIP	680	5%	1/10W
R8980	1-216-045-00	RES,CHIP	680	5%	1/10W
R8981	1-216-089-91	RES,CHIP	47K	5%	1/10W

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The components identified by shading and marked ⚠ are critical for safety
Replace only with the part number specified.

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REF. NO.	PART.NO	DESCRIPTION			REMARK
R8982	1-216-079-00	RES,CHIP	18K	5%	1/10W
R8994	1-216-073-00	RES,CHIP	10K	5%	1/10W
R8995	1-216-059-91	RES,CHIP	2.7K	5%	1/10W
R8996	1-216-059-91	RES,CHIP	2.7K	5%	1/10W
R8998	1-216-041-91	RES,CHIP	470	5%	1/10W
		< CRYSTAL >			
X8200	1-781-148-21	VIBRATOR, CRYSTAL			
X8301	1-781-612-11	VIBRATOR, CRYSTAL			
X8700	1-767-342-21	VIBRATOR, CRYSTAL			

MISCELLANEOUS

REF. NO.	PART.NO	DESCRIPTION
⚠	1-416-466-11	COIL, DEMAGNETIC (KV-28FC60/28FC60/Z)
⚠	1-416-769-11	COIL, DEMAGNETIC (KV-32FC60/32FC60/Z)
	1-452-032-00	MAGNETIC DISK; 10MM
	1-452-094-00	MAGNETIC, ROTATABLE DISK; 15MM
⚠	1-453-319-11	TRANSFORMER ASSY, FLYBACK (NX-4512/U214)
	1-529-154-11	SPEAKER (5.7x24CM)
	1-529-417-11	SPEAKER (8CM)
	1-452-896-11	COIL, NA ROTATION (RT200)
⚠	1-571-433-21	SWITCH, PUSH (AC POWER)
⚠	1-769-185-21	CORD, POWER (WITH CONNECTOR)
	1-693-340-11	TUNER/VIF (FR)
⚠	8-737-786-05	PICTURE TUBE (W66LLX060X) (SD-299) (KV-28FC60/28FC60/Z)
⚠	8-735-054-05	PICTURE TUBE (W76LLZ060X) (SD-302) (KV-32FC60/32FC60/Z)
⚠	1-451-481-11	DEFLECTION YOKE (Y28RVC2) (KV-28FC60/28FC60/Z)
⚠	1-451-480-11	DEFLECTION YOKE (Y32RVC2) (KV-32FC60/32FC60/Z)
⚠	8-453-011-11	NECK ASSY, NA299-M
⚠	1-251-317-63	CAP ASSY, HIGH VOLTAGE

ACCESSORIES AND PACKAGING MATERIALS

*	4-205-029-11	MANUAL, INSTRUCTION
*	4-029-168-01	BAG PROTECTION
*	4-204-879-01	INDIVIDUAL CARTON (KV-28FC60/28FC60/Z)
*	4-204-872-01	INDIVIDUAL CARTON (KV-32FC60/32FC60/Z)
*	4-204-880-01	CUSHION (UPPER) (ASSY) (KV-28FC60/28FC60/Z)
*	4-204-873-01	CUSHION (UPPER) (ASSY) (KV-32FC60/32FC60/Z)
*	4-204-881-01	CUSHION (LOWER) (ASSY) (KV-28FC60/28FC60/Z)
*	4-204-874-01	CUSHION (LOWER) (ASSY) (KV-32FC60/32FC60/Z)

REMOTE COMMANDER

1-418-572-11	REMOTE COMMANDER (RM-892) (KV-28FC60/32FC60)
1-418-573-11	REMOTE COMMANDER (RM-892) (KV-28FC60/Z/32FC60/Z)

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